AT&T IS ONLY WAY IN THE TO FLY.

On the ground or 30,000 feet above it, the lines between a pilot and air traffic control must always be open.

Keeping them that way is a shared responsibility between the FAA and AT&T.

For the past forty years, our people, services, equipment, systems and network have served the FAA, making sure the quality of air traffic control is always at peak level.

This has been true from the simplest remote facility to the largest air traffic control center.

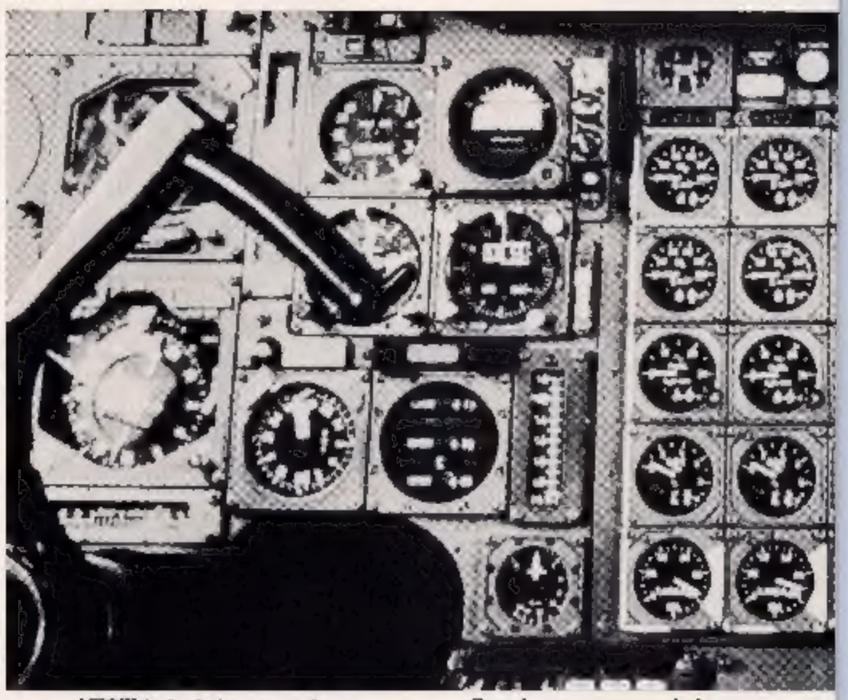
We've been able to provide this level of support by constantly advancing our technology. Sometimes, to keep up with the needs of the FAA. At other times, to provide entirely new capabilities.

The outcome has been a long-term partnership in air safety.

A partnership that gets more ambitious by the day.

Today, the FAA is entering a new era in its responsibilities. Leading to even greater use of its new technology for air traffic control and airway facility management.

© 1985 AT&T Communications



AT&T is helping to usher in this new era.

By making use of our existing resources. Using our past expertise to explore technology in new and creative ways. And creating new technologies.

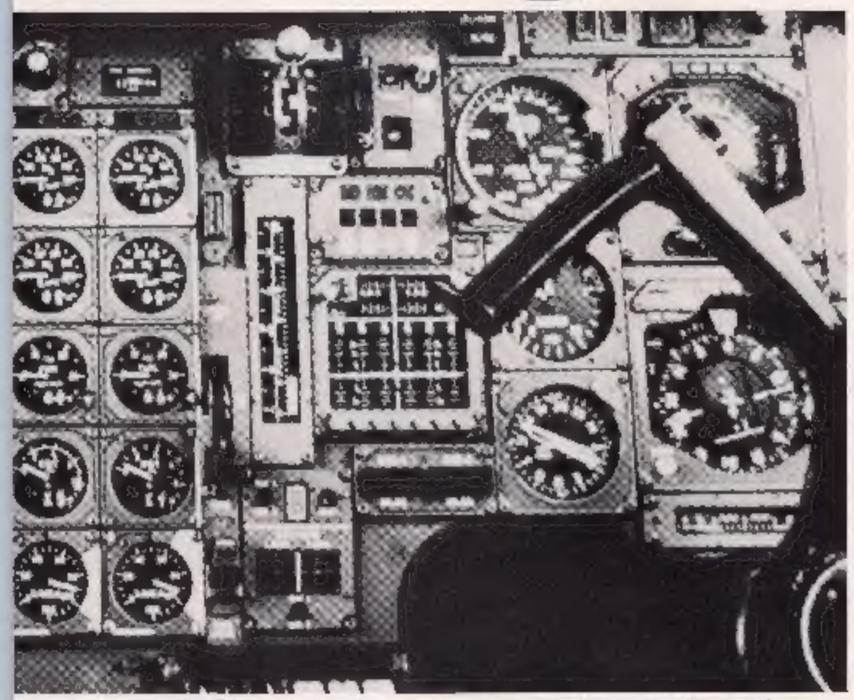
Right now, we're working with the FAA to reduce flight delays.

Cut down on travel time and fuel consumption. Along with the risk of collision.

And increase air safety.

In other words, we're helping the FAA do everything it takes to meet the growing demands of air travel.

We're customizing a new system to fit the FAA's new communications needs.



Radio Communications Link (RCL) will link major FAA facilities to enhance operational capabilities while reducing long-term operational costs.

The network of people and backup systems helps to provide continuous communication right through any problem that may arise.

So the FAA will continue to have the most thorough communications system in the world. Now, and in the future.

Much of it's already on line. Some of it soon will be on line. Some of it is in the eye of the scientists at AT&T Bell Laboratories.

All of it is driven by the initiative of the FAA and the people, services, equipment, systems and network of AT&T.

AT&T is the right choice for all your telecommunications needs.

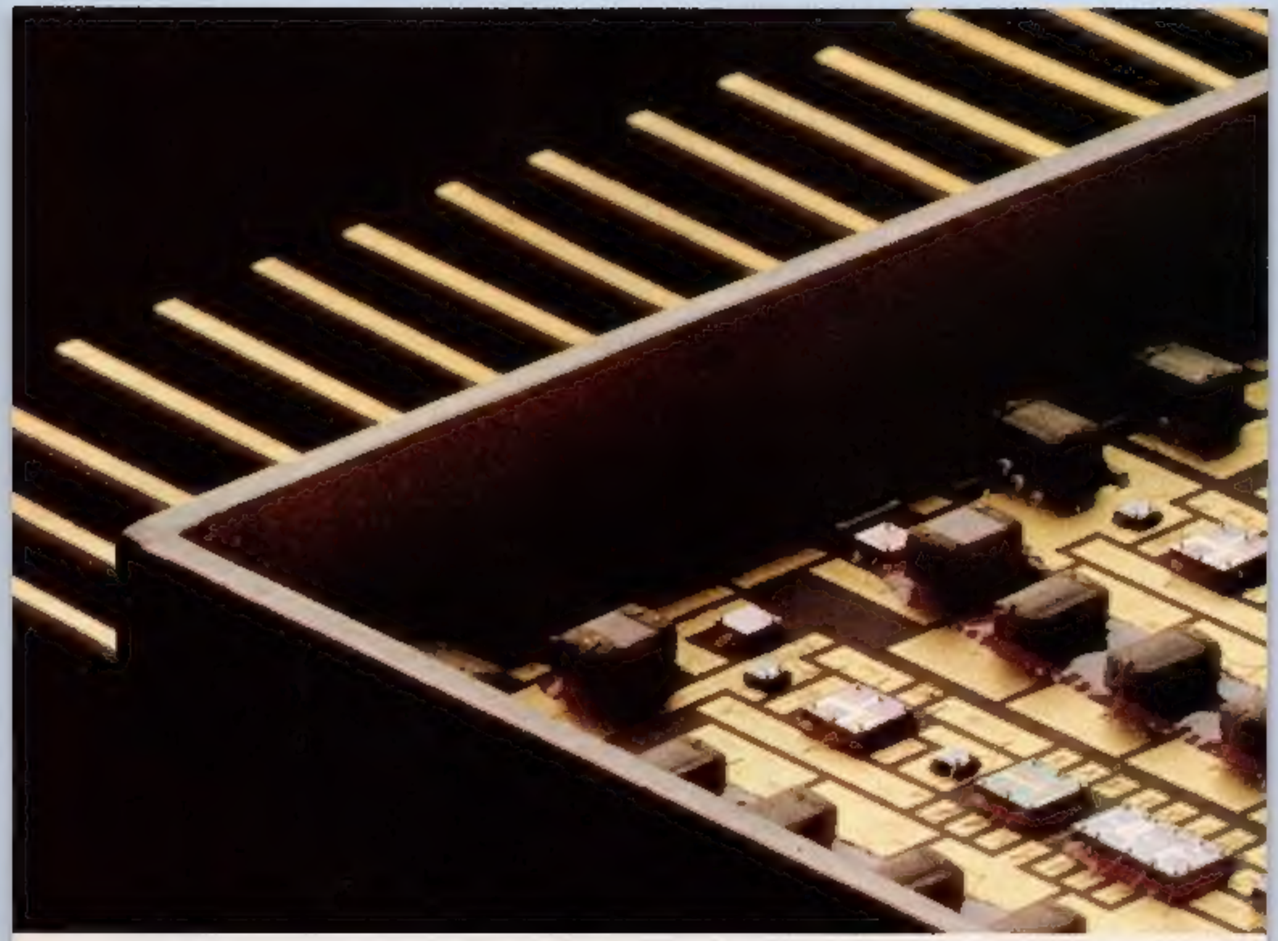
We'll continue to work side by side with the FAA to support their needs in new and creative ways.

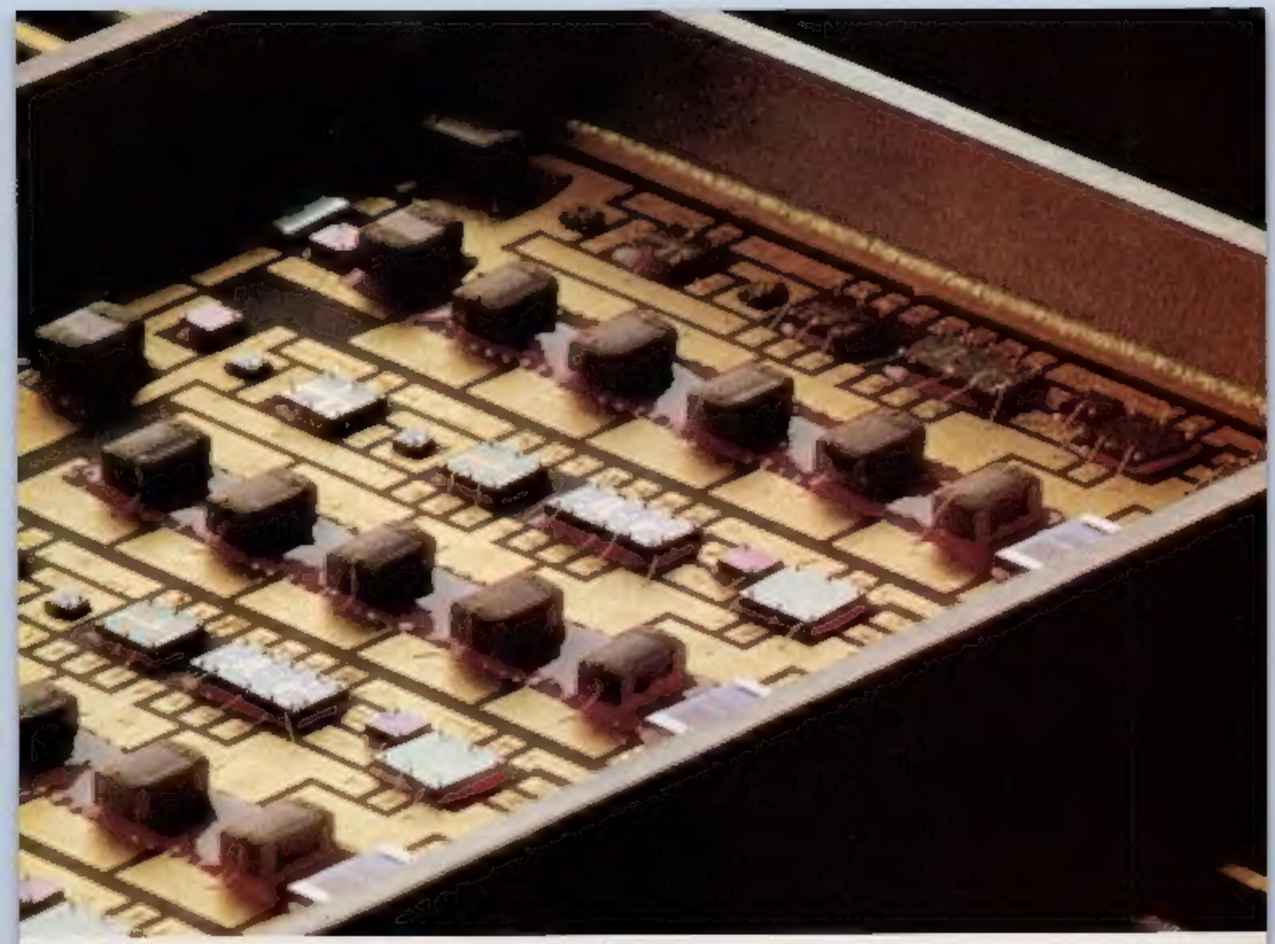
Because a safe and efficient air space is the only way to fly.

We helped the FAA and we can do the same for your organization. Talk with your government representative at **AT&T Communications, or call 202 457-0177, Ext. 335.** (Outside of Washington, D.C., **1 800 424-2988, Ext. 335.**)

AT&T

The right choice.





How to bring new ideas to the surface.

At Aerojet, we're advancing the frontiers of electronic circuitry by taking a close look at surfaces.

Because today, that's where many problems with state-of-the-art circuits crop up. Aerojet is investing in people and advanced instrumentation for a new activity called "Surface Sciences." Here, chemical, spectrographic and electron micrographic techniques are used to analyze and evaluate a variety of surface conditions and effects. And it's paying off with sharpened eyes for space sensors and improved performance and reliability for many other electronic devices.

A lot of other ideas surface at Aerojet, too. Like decoys that play siren songs for torpedoes. Advanced CAD/CAM technology that lets us build exciting devices from perfectly predictable parts. And we're researching low-signature rockets.

At Aerojet we believe that putting resources into technology today is our best investment in tomorrow. Case in point: We've tripled R&D outlays over the past three years.

No wonder so many ideas surface at Aerojet. If you have one you'd like to get off the ground, bring it to us. We'll make it fly.

Aerojet General Corp., 10300 North Torrey Pines Road, La Jolla, CA 92037/ (619) 455-8500.

AEROJET GENERAL
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Where ideas fly.

Bendix Microwave Landing Systems. Up and Running.

When the Bendix MLS was commissioned at Shemya AFB in Alaska on March 3, 1984, the Air Force wanted a system that would provide dependable approach and landing guidance.

What they got was an MLS system with a 99.28% operational availability including time for flight inspections and maintenance. They also got some severe storms in which to prove its dependability.

The Bendix system, which has a monitor tolerance of 0.05 degrees, remained operational during three consecutive storms which lashed Shemya with snow, sleet, ice, continuous winds of over 60 mph and, at times, gusts reaching 125 mph.

Through it all, the Bendix MLS system stayed up and running, providing the Air Force with an accurate and reliable landing guidance system.

If you have a need for a proven dependable MLS system, or want more information on the system at Shemya, contact Bill Reed at the Bendix Communications Division, 1300 East Joppa Road, Towson, MD 21204. Or call him at (301) 583-4000.

ALLIED Bendix Aerospace

For total worldwide logistics support, think BASI.

To us, it means Beech Aerospace Services, Inc.
To our military and civilian customers, it means support they can rely on.

Islamabad, Pakistan. A lineman's salute brings a smile from an Air Force major as he taxis out. The salute might be civilian but his Air Force C-12 turboprop is in an "up" status and ready for flight. BASI.

Milton, Florida. A night crew worked to get as many as 242 Navy T-34C trainers ready for an intensive training schedule. The Navy expects nothing less, and has scheduled more than 800 flight hours from Whiting Field for the day. BASI.

White Sands, New Mexico. A target missile roars off its launcher. The civilian crew that made the launch now prepares to recover the target for refit and relaunch. Shoot it down? BASI personnel leave that difficult task to U.S. Army air defense crews.

Beech Aerospace Services, Inc. Total logistics support is a lot more than just 1100 dedicated people at 126 locations in 32 countries worldwide. It is sophisticated inventory controls that deliver readiness without the parasite drag of excessive field inventories.

It is direct communications links to advise lone technicians at remote sites; trained personnel for immediate dispatch when a technician is ill or incapacitated; technical training; 24-hr. per day shipping; continuing, effective cost controls, and more.

Does it work? Just ask any of the people who depend on BASI at any of our 126 locations in 32 countries.

To find out what BASI total logistics support can do for your service needs, write: Beech Aerospace Services, Inc. 615 Stonewall, Jackson, MS 39213.

Beechcraft
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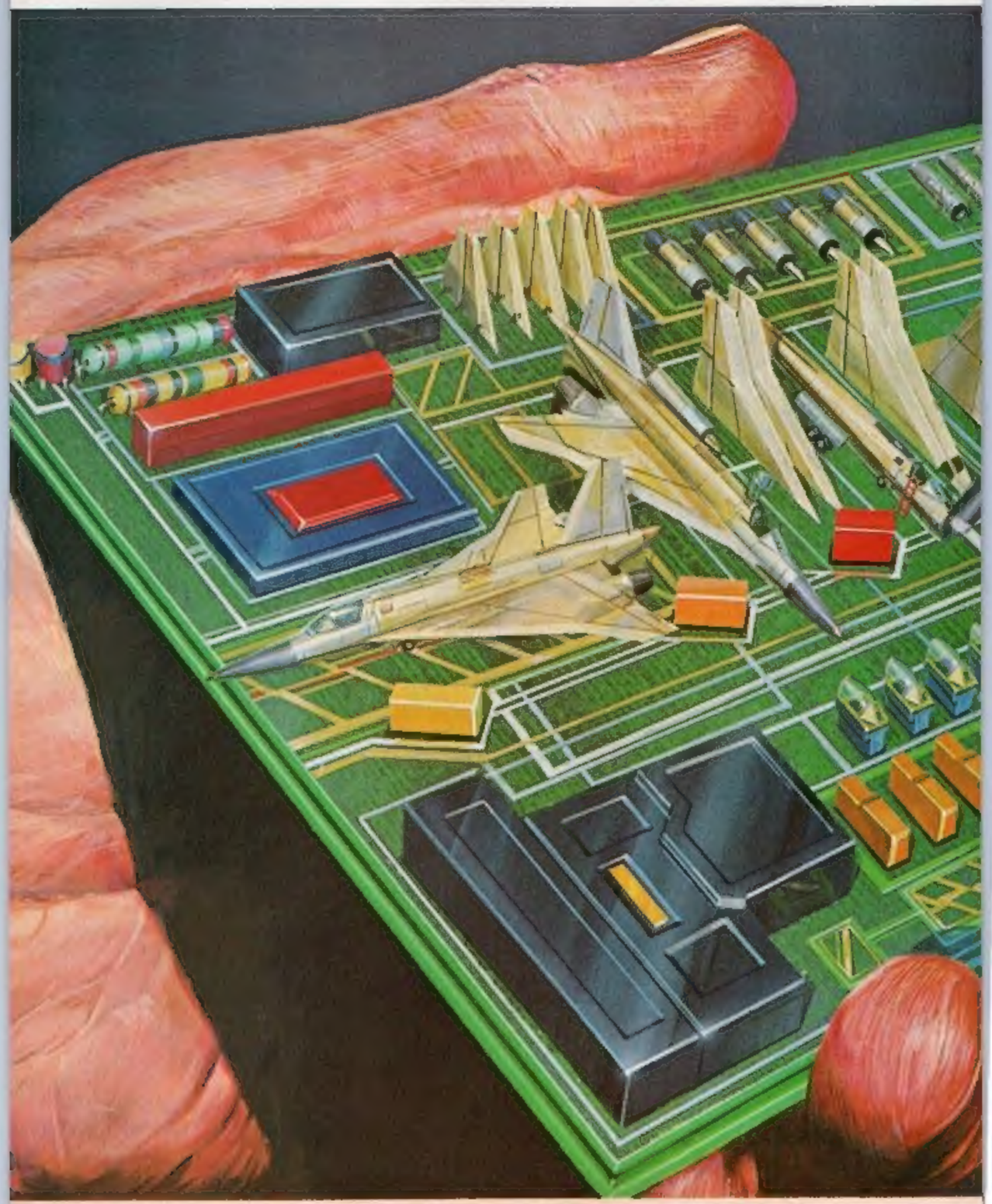
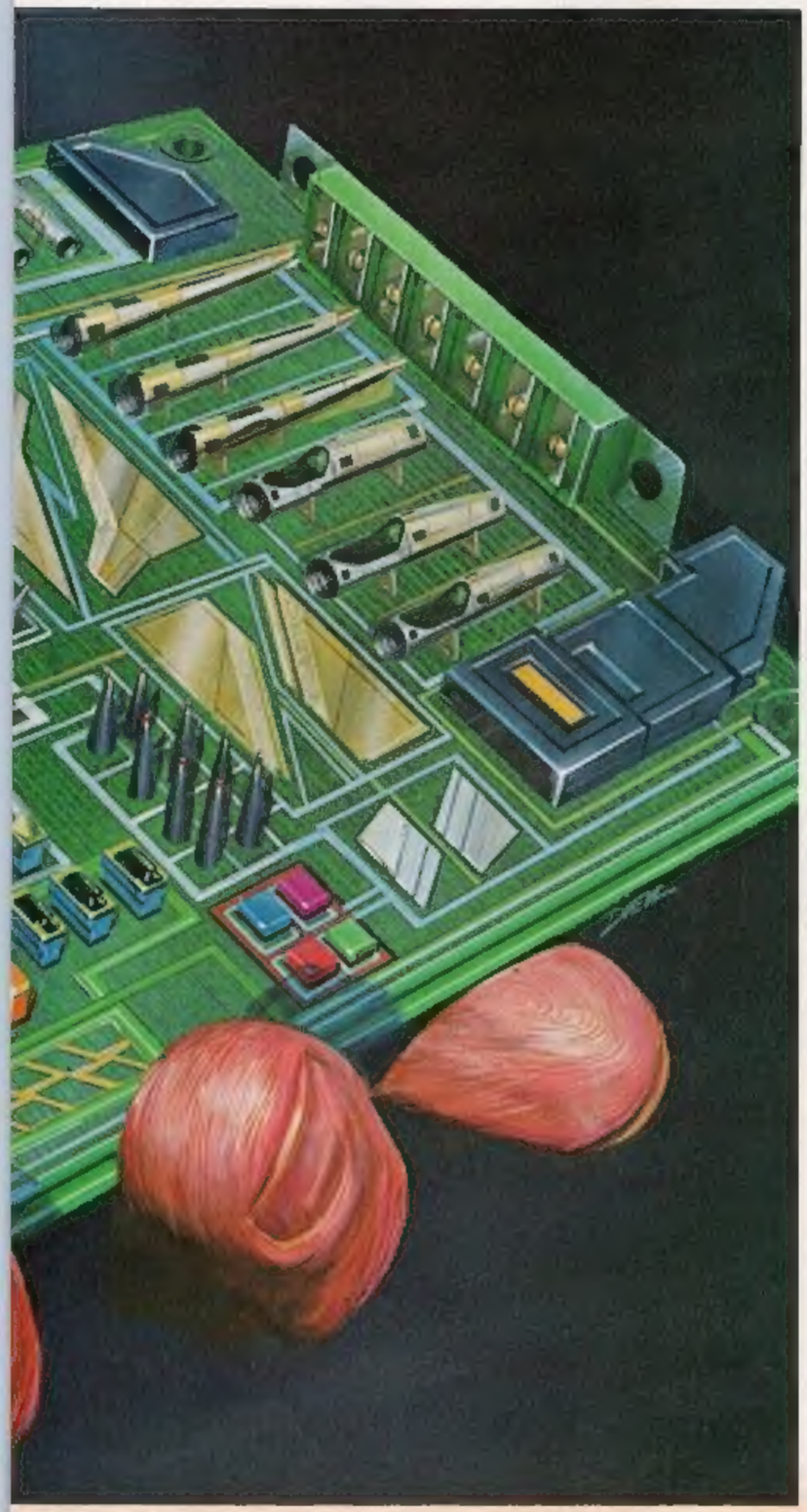
HOW TO GET



1995 TECHNOLOGY ON TODAY'S MILITARY BUDGET.



No matter what threat the Soviet Union poses in the next decade, our nation's aerospace companies have the technology to neutralize it. Witness the ATF, the most advanced tactical fighter in the world.

Boeing has the resources to match quantum leaps in technology with breakthroughs in production capability. Boeing can make the ATF an effective *and* affordable deterrent.

How? With the Factory of the Future.

A computer-designed plant will minimize time and space requirements. Quality control by artificial intelligence will be far more effective than the human eye.

Computer-aided inventory control will eliminate the costly delays of waiting for parts. An automated stockroom will be operated by robotics that can handle 20 times the weight a human can.

Boeing will integrate computers, software, machinery and people in the same smooth manner as we worked with over 1000 suppliers when integrating the B-1B avionics.

All of which will give the United States a fighter second to none. And make the ATF project the most cost-effective and efficient in the aerospace industry.

BOEING

BOEING CAN

CUT FIGHTER MAINTENANCE TIME BY 40%.

The Boeing Advanced Tactical Fighter is so advanced, it's simple to maintain.

To begin with, less maintenance time is needed. Equipment and systems are placed in one-deep alignment. So there's no need to take out three healthy systems to tend to one problem area.

A sophisticated ejection seat eliminates 90% of all seat removal, and saves 10 man hours when removal is required.

Less maintenance equipment is needed. Innovative Boeing design allows for ground level avionics accessibility, which eliminates the need for a work stand.

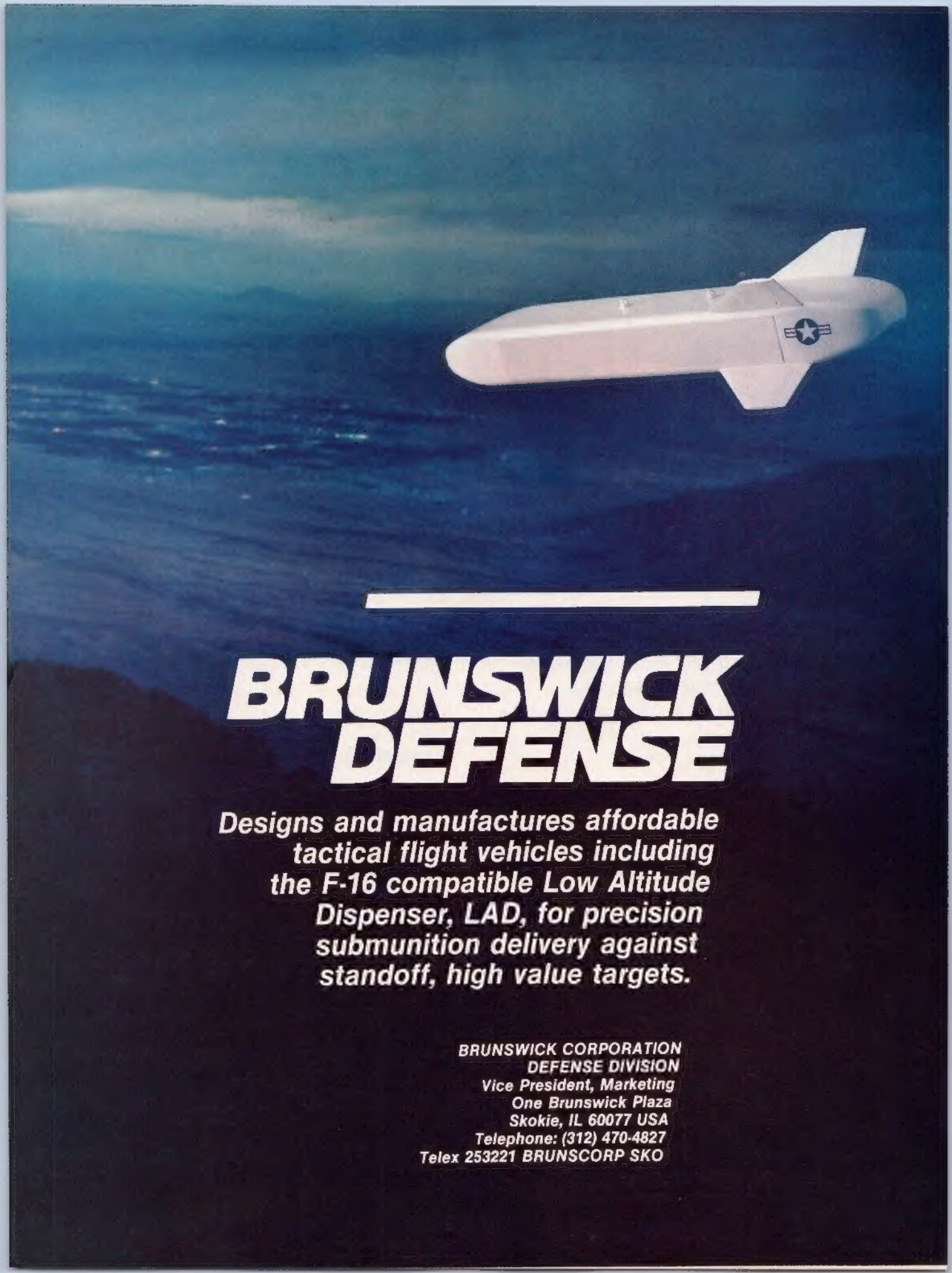
On board gas generation eliminates the nitrogen cart for routine servicing. An integrated power unit gives the ATF self-sufficiency, with no support equipment needed for ground engine starts or ground check-out.

Fewer maintenance personnel are needed. Modular avionics reduce the number of connections by 90%. Thermoplastic airframe construction means 50% fewer assemblies and fasteners. And the less you have, the less you have to maintain.

All of which will help the Boeing ATF have 40% of the maintenance on airframe and avionics compared to current fighters. Sixty percent the maintenance on mechanical and electrical equipment.

In fact what the Air Force will save on maintenance in 15 years will be enough to buy 10% more of the most advanced tactical fighter in the world. The Boeing ATF.

BOEING



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Vice President, Marketing
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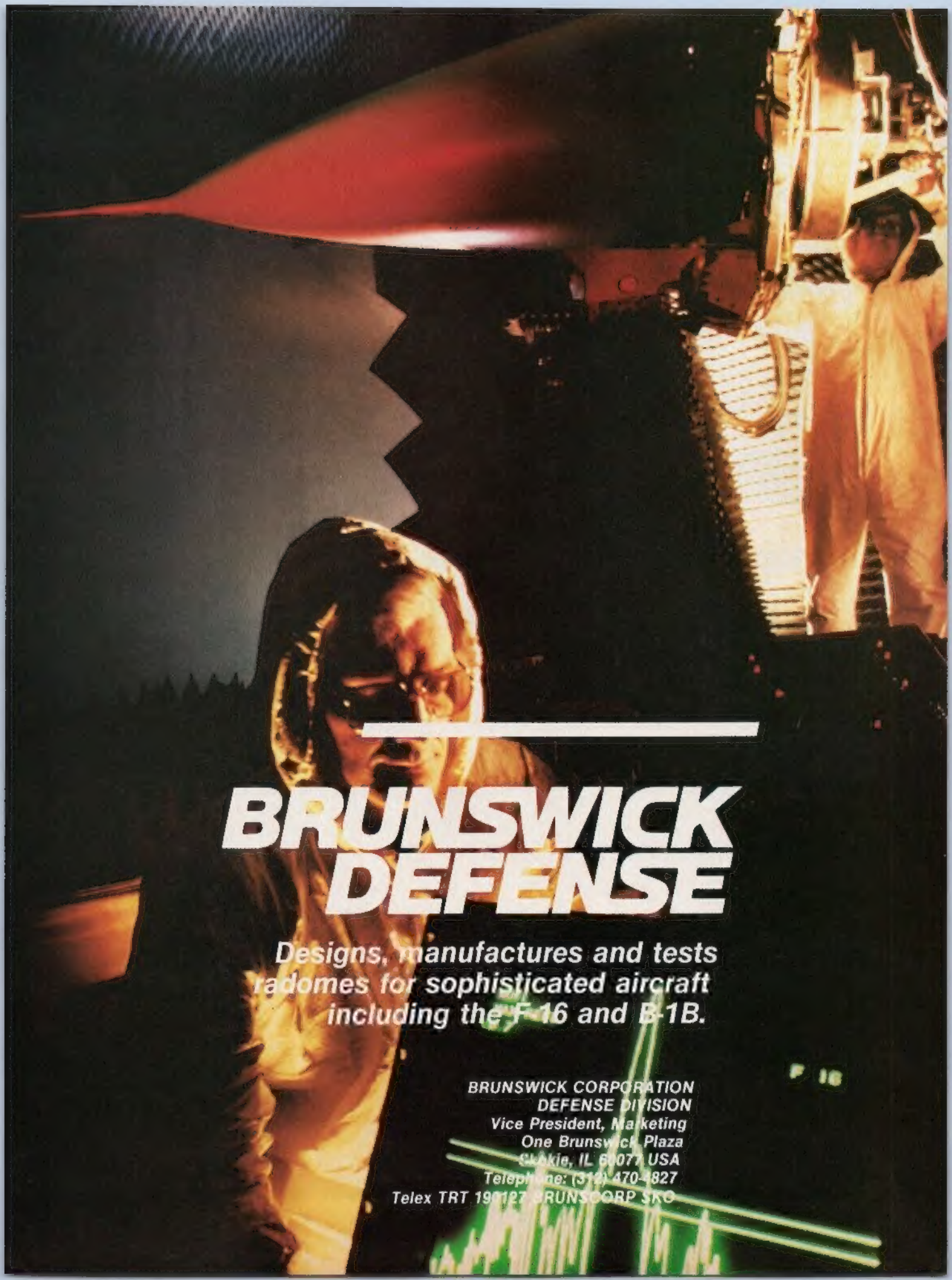
BRUNSWICK
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Designs, manufactures and tests radomes for sophisticated aircraft including the F-16 and B-1B.
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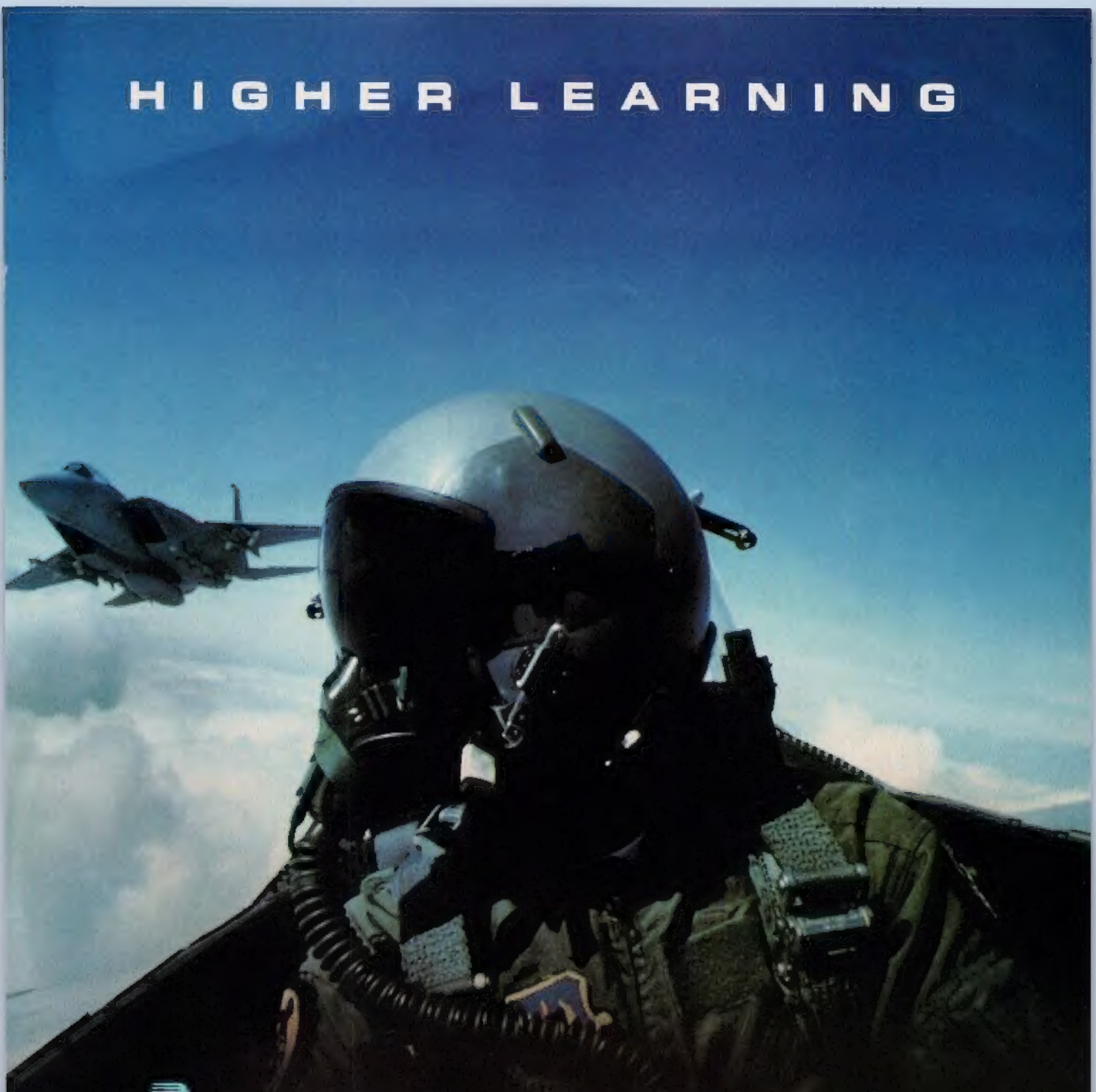
HIGHER LEARNING



Behavior. Perception. Response. These make the difference in critical situations. They must be learned, experienced, lived. This is the job of the Burtek Flight Simulator, allowing flight personnel the opportunity to face adversity . . . and to learn from it.

Simulator training offers the chance to learn skills and then to hone those skills into effective, natural reaction. It's a continual process, quickening responses and sharpening instinctive actions. The Burtek Flight Simulator produces success . . . when success is the only alternative.

In these times of tight budgets, low acquisition costs and low life-cycle costs combine to make Burtek Flight Simulators, maintenance trainers and surface vehicle simulators highly cost effective.

Realism . . . authentic conditions . . . proper environment.

The Burtek Flight Simulator is an Institution of Higher Learning. It doesn't award degrees . . . only professionalism!

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CAI's E-O cameras... the clear choice in real time reconnaissance.

KS-153 KS-87

CAI, the acknowledged leader in reconnaissance camera technology, has a full line of superior performance electro-optical reconnaissance cameras. And we're taking orders now! The KS-87, KS-127, KS-146 and KS-153 can be flexibly equipped for film or E-O applications, or both. Existing film cameras can be upgraded to E-O capability at any time. CAI s cameras provide the choice of the capabilities needed most: E-O, film, visible and near-infrared in short and medium focal length and LOROP configurations. Cameras designed to get the job done right the first time...everytime

As a leader for more than 60 years in the design, manufacture and use of sophisticated, reliable aerial reconnaissance cameras and support equipment, CAI has pioneered in the field of E-O and real time reconnaissance systems that provide high quality, high resolution imagery even under the most demanding weather and light conditions.

From the innovative work done with the Electronic Wide Angle Camera System of the 1970 s to the Shared Focal Plane and complete Real Time LOROP Systems of the 80's, CAI has led the way. Now CAI announces a complete line of reconnaissance systems for the future — available today.

For more information on CAI s leader line of E-O reconnaissance cameras call or write: CAI, a Division of RECON / OPTICAL, INC., Department 58, 550 W. Northwest Highway, Barrington, IL 60010. Phone (312) 381-2400.

CAI A DIVISION OF RECON OPTICAL, INC.

RECON/OPTICAL, INC.

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Barrington, IL 60010 U.S.A.

CAE DYNAMIC ROTOR SIMULATION

Where the real world meets its match

To faithfully replicate the complex aerodynamics of a helicopter's main rotor, CAE Electronics replaced the traditional static rotor disk and map modeling with a dynamic, CAE-developed advanced rotor model. This breakthrough in simulation uses separate blade element modeling. The result: superior transitional performance with lag-free motion and visual cues in all flight regimes, including blade stall and vortex ring . . . giving the much sought after realism in low-and-slow flight. We went the extra mile because we believe a helicopter simulator should behave exactly like a helicopter.

At CAE we have a long, hard-earned, thirty year tradition of excellence in flight, tactics and mission simulation. From wide-bodied jets and the hottest tactical fighters to a wide range of helicopters . . . we've met the big challenges.

CAE ELECTRONICS LTD.

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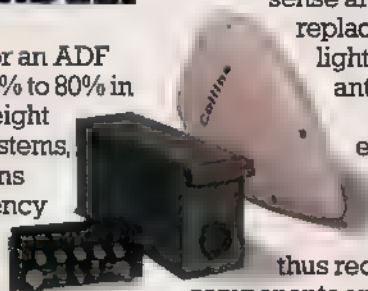
THE COLLINS DF-206A. IT CAN SAVE YOU A BUNDLE.

If you're looking for an ADF that can save from 25% to 80% in space, power and weight over older military systems, look at the new Collins DF-206A Low Frequency Automatic Direction Finder.



The DF-206A can not only upgrade older aircraft at minimal cost, but it also meets the stringent requirements for new military applications.

It's designed to adapt to existing ADF mounts and to use existing aircraft wiring. There's no need to buy special factory wiring bundles with critical impedance matching. Separate loop and sense antennas have been replaced by a single lightweight, low-drag antenna.

We have also eliminated synchros and switching devices in the DF-206A's design, thus reducing installation components and improving reliability over the older electromechanical units. All components exceed MIL-E-5400 Class 1 environmental requirements, and the DF-206A is available with MIL-STD-1553B digital interfacing.

The DF-206A provides coverage in the 100-2200 kHz range plus 500 kHz and 2182 kHz preset emergency frequencies.

For all the time-saving, weight-saving, money-saving details and complete specifications, write Collins Government Avionics Division, Rockwell International, Cedar Rapids, IA 52498; or phone (319) 395-2208.

COLLINS AVIONICS

Rockwell International

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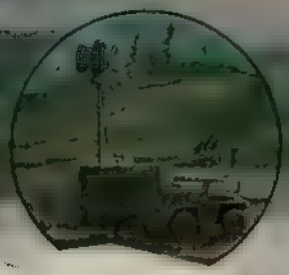
Now delivering... Singer-Rockwell TDMA JTIDS Terminals



JTIDS, the Joint Tactical Information Distribution System, is now a reality with integration in process in U.S. Air Force F-15 aircraft and the U.S. Army PLRS-JTIDS Hybrid.

Rockwell International's Collins Government Avionics Division and Singer's Kearfott Division are delivering AN/URC-107(V) Class 2 terminals which will make it possible for Air Force and Army elements to coordinate missions with reliable, real-time information.

AWACS and fighter-attack aircraft can share common information with Army ground air defense, artillery and surface-to-air missile commands over the JTIDS network. The services will also share data on enemy positions, speed and strength and important information about friendly forces, such as identity and positions, weapons status and fuel reserves.

Here's how we've geared-up for full scale production:

- Through participation in the U.S. Air Force Tech Mod program, our facilities modernization plan promises high-quality, low-cost production.
- We're applying 40 years of Collins RF expertise—including production of 20,000 ARN-118 TACANs and more than 14,000 ARC-186 VHF transceivers.
- We've developed advanced handling, assembly and test methods for RF circuitry, lead-less chips and surface-mounted devices for efficient production of JTIDS Class 2 terminals.

Rockwell and Singer are committed to providing the lightning fast information our services need. To find out more about the JTIDS program and Rockwell's role in it, contact Collins Government Avionics Division, Rockwell International, Cedar Rapids, Iowa 52498. Or call (319) 395-2208.

Rockwell International

...where science gets down to business

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COLLINS GPS:

The Collins GPS tested by

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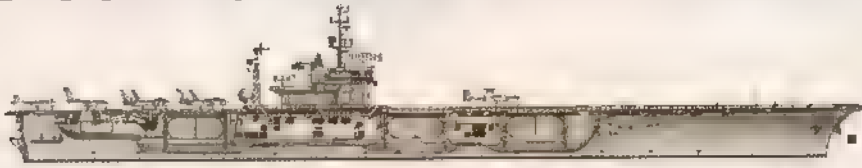
is the same receiver tested on board  . And the unit tested on

is the same Collins GPS tested in , in and in .

Now that's commonality!

Collins Navstar Global Positioning System receivers are currently being tested on land, at sea, and in the air

Our precise, 3-dimensional position / velocity / time GPS systems have been environmentally tested as well as EMI and CERT tested. Equipment producibility has even been proven on our production line.

Designed-in commonality reduces the need for repeated performance testing in new applications. It also helps reduce initial cost and lowers life-cycle costs through greatly reduced maintenance and spares requirements.

Collins GPS user equipment sets share 75% of all Line Replaceable Units, and field-proven GPS software is common to more than 80% of all applications.

For a status report on our Navstar Global Positioning System, contact Collins Government Avionics Division, Rockwell International, Cedar Rapids, Iowa 52498. (319) 395-2208.

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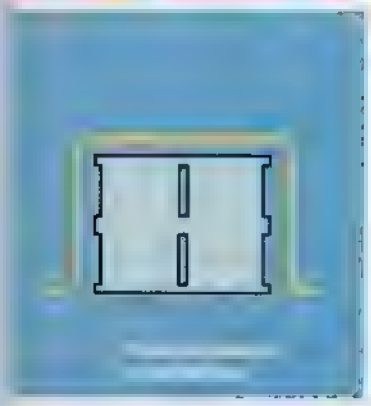
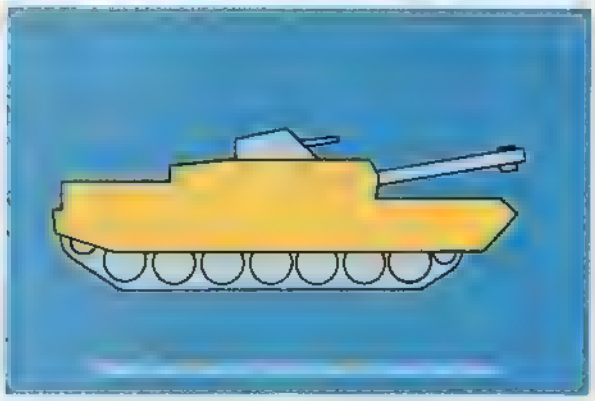
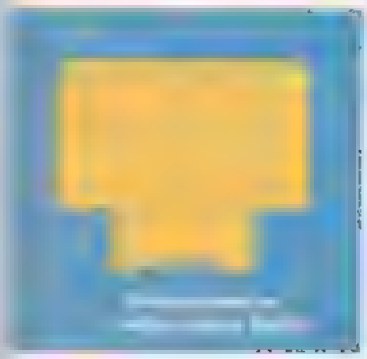
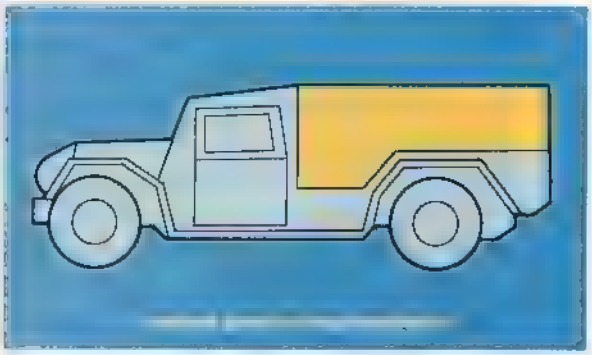
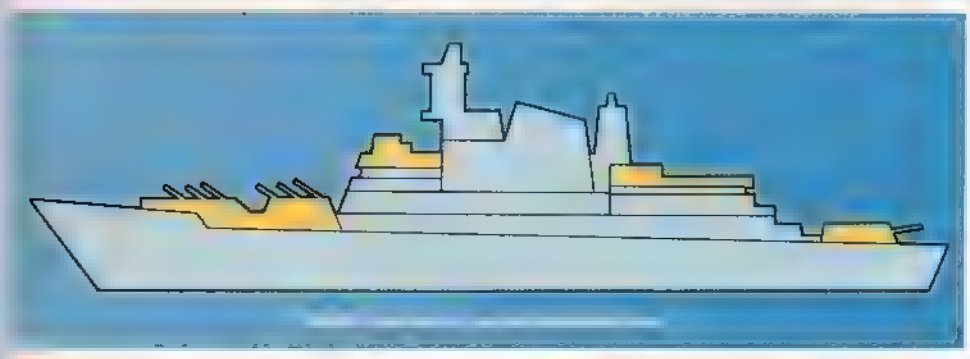
KEVLAR®: Superior armor at the lowest possible weight











Pilot seats and selected areas in helicopters.

The extraordinarily high strength-to-weight ratio of KEVLAR aramid fiber—five times stronger than steel—lets design engineers provide protective armor for the military at reduced weights.

Today, KEVLAR is used in soft armor, such as bomb blankets and curtain liners...in rigid armor laminates attached to metal structures...and in structural armor laminates with load-bearing capabilities. Surface combatant ships, military wheeled vehicles, tactical shelters and aircraft all use KEVLAR aramid for lightweight ballistic and fragmentation protection.

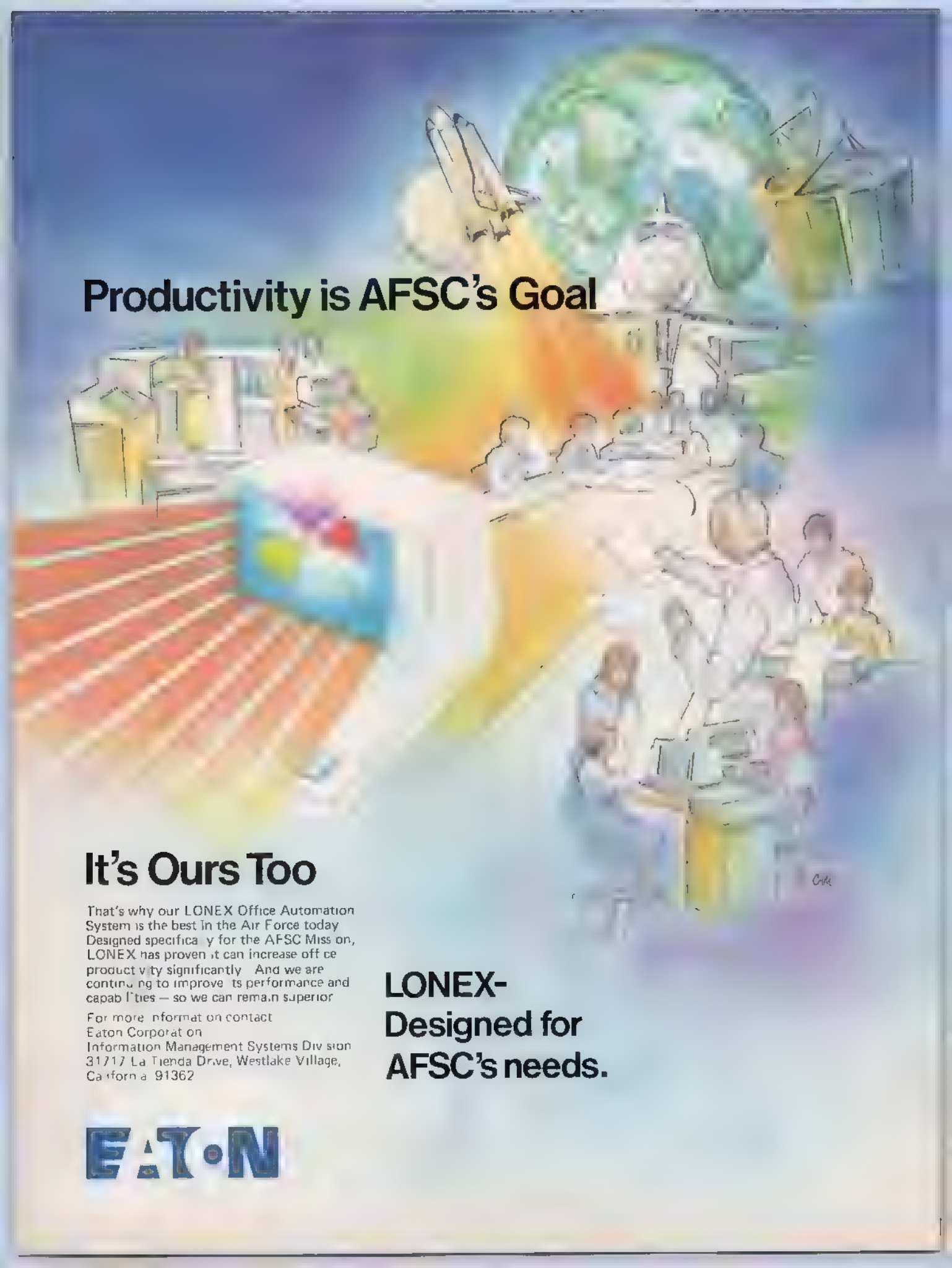
Weight savings are significant. For example, shipboard armor equal to 315 tons of steel weighs just 165 tons in KEVLAR. Wheeled vehicles weighing 13,000 pounds with aluminum armor would weigh 8,000 pounds with KEVLAR. And a 3,600-pound aluminum mobile electronics shelter can weigh 33% less when constructed with KEVLAR.

Saving weight is just one of the important benefits of KEVLAR. Superior damage tolerance and corrosion resistance, radar non-interference or reduced signature, and thermal stability come along at no additional cost.

Call 800-4-KEVLAR for complete information about ballistic armor made with KEVLAR.

KEVLAR®
Working
all around you

DUPONT



Productivity is AFSC's Goal

It's Ours Too

That's why our LONEX Office Automation System is the best in the Air Force today. Designed specifically for the AFSC Mission, LONEX has proven it can increase office productivity significantly. And we are continuing to improve its performance and capabilities — so we can remain superior.

For more information contact
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LONEX-
Designed for
AFSC's needs.

EATON

Total commitment to the electronic Air Force

At Eaton our goal has always been clear. We're committed to anticipating, developing and integrating the latest technology into a flexibly engineered system that will provide maximum reliability and performance.

Right now, for instance, we can point to the defensive countermeasures system for the B-1B, the tactical jamming system for the EF-111A, the identification friend or foe system for the E-3 as well as air traffic control systems operating worldwide.

What's more, our experience in working on these systems is constantly opening new doors to even more advances for tomorrow.

One thing you can be sure of at Eaton: we're at the cutting edge of electronic technology today, and we'll be there tomorrow. We've been there for the past 35 years, and we're not letting up.

At Eaton—the Originator is still the innovator. For further information contact
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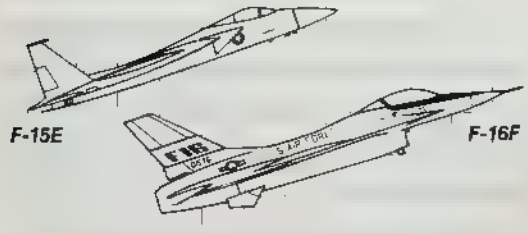
Now: One hundred sixty 14" and 14/30" units per month, readily expandable to 500. Backed by a proven 100-member all-star vendor support team with capacity. Our ERU quality assurance is proven in current production and has demonstrated operational maturity with proven producibility. Tomorrow's Standard for ERU Excellence is being Established Today by EDO.



CANDIDATE APPLICATIONS

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EDO Corporation
Government Systems Division
College Point, NY 11356-1434, USA
Phone 718 445-6000 • Telex 127431

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Call Us...Our Door Is Open

Whether you require increased capacity for a satellite data communications system or multi-routing and over-the horizon extension for a line-of-sight network, E-Systems has the solution

Our advanced packet communications technology provides increased channel utilization, automatic routing and accountability. Our packet applique can convert virtually any radio system into a packet communications network, and our satellite controller allows many users to share a single satellite channel.

Regardless of frequency or operating environment land, sea, air or space — we are ready to provide the system architecture, the protocols, the network controls, the hardware and the software to meet your packet communications needs

Come see us. Our door is open.

E-Systems, Inc., ECI Division, P.O. Box 12248, St. Petersburg, Florida 33733, U.S.A. Phone: (813) 381-2000. TWX 810 863-0377 TELEX. 523455.

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Our cost-effective systems solutions combine innovation, high technology and rugged reliability to meet your needs in:

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- Battlefield Surveillance
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- Automatic Test Equipment
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AIRMAIL

I collect Air Force, Air National Guard, Air Force Reserve, Navy, Marine Corps, and foreign patches. I have a great many patches available for trade and am always looking for new trading partners from this country or abroad.

I have a special interest in patches from the Southeast Asian conflict, old fighter interceptor squadron patches, patches from Southern Command, NATO patches, and "Wild Weasel" patches.

If you don't have any patches available for trade, I am willing to purchase patches in quantity for my collection. Please contact me at the address below:

Joseph J. Dudley, Jr.
Tenth Floor West
First National Bank Bldg.
St. Paul, Minn. 55101
Phone: (612) 291-1717

I am looking for a copy of a book called, I believe, *Student Pilot's Handbook*. I was issued (or bought) a copy of this book at Primary Flight School, Pine Bluff, Ark., when I was there with Class 44-A. It somehow disappeared from my bookshelf.

I would like very much to replace it so that I can be reminded of the "good old days." If anyone has a copy and would be willing to part with it, write to me at the address below. Please describe the book's condition and give your asking price.

Anyone having a copy of this book is asked to contact me at the address below:

Victor D. Iglesias
1200 Pembroke Lane
Newport Beach, Calif. 92660

I am looking for cloth unit patches for the 307th Bomb Wing, the 28th Bomb Wing, the 55th Strategic Reconnaissance Wing, and the 55th Field Maintenance Squadron.

Any readers having any of these patches are asked to contact me at the address below:

Terry G. Harpster
R. R. 1
Ewing, Neb. 68735

I am a collector of photos of nose art on USAF, Air Force Reserve, and Air National Guard aircraft of the past and present. I do hand paintings of nose art as a hobby and wish to collect more photos of nose art done by Air Force personnel.

I am willing to swap photos. Anyone interested or who can help should contact me at the address below:

Johnny Signor
3418 Carolyn Lane
Cocoa, Fla. 32926

I'm looking for any vets from World War II who were stationed on Iwo Jima in 1945 and who can help me find photos of aircraft belonging to VII Fighter Command. These fighters escorted B-29s on bombing missions to Japan.

I will return any photos that are sent and will pay all postage. Please contact me at the address below:

Ron Witt
3220 S. Gavilan Rd.
Las Vegas, Nev. 89122
Phone: (702) 451-9096

I am a collector of military patches and badges, both US and foreign. If any readers could send me spare squadron patches, badges, etc., it would be highly appreciated.

Please send any donations to the address below:

SrA. Thomas G. Snipes, USAF
P. O. Box 6252
APO New York 09194-5420

DYNAMIC SCENARIO THREAT GENERATORS

FSI's DYNAMIC SCENARIO THREAT GENERATORS provide the full frequency range of threat emitters to the B-1B AN/ALQ-161 Defensive Avionics System in systems integration tests at Eaton Corporation and at Edwards Air Force Base. Realistic threat systems and pulse doppler emitter signals are dynamically varied in precise time and space as the B-1B is electronically "flown" by FSI's Combat Systems Simulator over rugged terrain simulating penetration of dense airborne and ground-based hostile environments.

FSI's Dynamic Scenario Threat Generators and Multiple Radar Emitter Simulators are available for laboratory, flight-line, field and airborne applications with a full range of simulated tactical and strategic aircraft and associated surveillance and ECM systems.

For more information contact:
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Newport Beach, CA 92660
(714) 660-1733
USA Telex 183542 fsinpbh

Flight Systems, Inc.
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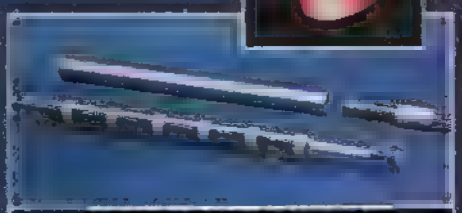
P.O. Box 2400, Newport Beach, CA 92660

GA Technologies... turning strategic defense dreams into realities

Thermionic space power reactors

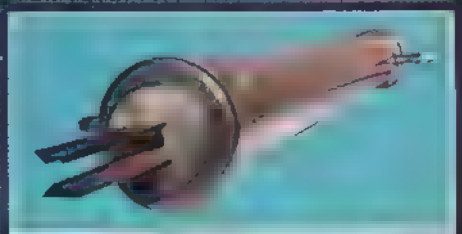
GA is designing a 100 kilowatt nuclear thermionic space power system for the U.S. SP-100 program.



Thermionic fuel elements

Electromagnetic launchers

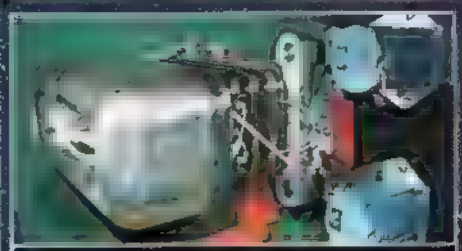
GA is developing railgun and homopolar power source technology for strategic defense.



Rapid-fire railgun barrel

Neutral particle beam devices

GA experience includes development and operation of 3 megawatt neutral particle beam systems in fusion research.

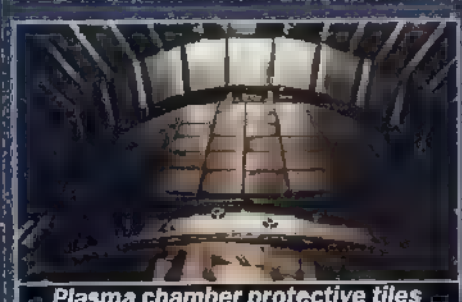


Ion sources

Beam neutralizers

Advanced survivability materials

Alloyed pyrocarbon coatings in GA fusion research device resist 50 million degree plasmas and 3 megawatt neutral particle beams.



Plasma chamber protective tiles

Call Al Moorman
Director, Advanced Programs
(619) 455-3702
GA Technologies Inc.
P.O. Box 85608
San Diego, California 92138

GA Technologies

Retrofitting the C-130 with the Self Contained Navigation System (SCNS) demands an integration contractor with a combination of practical experience and technical expertise. Over a long and successful association with the United States Air Force, Delco Systems has acquired these credentials.

Delco's inertial navigation systems, doppler navigation systems, control and display units, and computers have proved themselves on Air Force C-141s, C-5s, C/KC-135s, E-3s, E-4s and special purpose C-130s. Delco was the integration contractor for this equipment on the C-141s and C/KC-135s. Not to mention Delco's latest integration contract for the C/KC-135 Fuel Savings Advisory/Cockpit Avionics System.

Our accumulated experience is paying big dividends. For the Air Force, the payoff will come when Delco's version of SCNS helps pilots meet mission objectives efficiently.

Delco's expertise in avionics is proven. We're looking forward to teaming with the Air Force on SCNS.

Delco Systems Operations
General Motors Corporation
P.O. Box 471 Milwaukee, Wisconsin 53201
PH. (414) 961-4800, Telex 26-9454

SCNS AND DELCO. A COMBINATION YOU CAN BANK ON.

General Motors controls the fight in the Fighting Falcon.

Delco Systems Operations integrates high-technology hardware into capable, reliable defense systems.

A nimble front-line fighter needs a nimble brain. Quick enough to run the avionics data bus. Sharp enough to direct the delivery of air-to-air and air-to-ground weapons.

In the fly-by-wire F-16, flight information and fire control are handled by a General Motors computer, one of the Magic III series from GM's Delco Systems Operations.

General Motors' pre-eminence in defense computers has its roots in our production of gun, bomb, and rocket sights in the late 1940's. Our success is a tribute to the foresight of the people at Delco Systems. Our leadership is a measure of their ability to integrate hardware into working systems–to choose technologies for the future, and to develop applications for them.

Delco was the first to deliver computers meeting U.S. Air Force Military Standards for the data bus. And we were the first to apply MIL-STD instruction set architecture and high order language in a production program.

Today GM is among the world's largest manufacturers of commercial and military digital-control computers. Three thousand U.S. military fixed-wing aircraft fly Delco computers. On commercial airliners, a GM Performance Management System can pay for itself in fuel savings in approximately 12 months.

We are known as a producer of reliable equipment. Delco computers have performed flawlessly on all 60 Delta booster satellite launches. Our SRAM guidance computers have proved so dependable the Air Force reduced its requirement for repair depots. On the F-16, Delco Systems received Supplier Excellence Certification from General Dynamics. Our commitment to quality and reliability has won us the Defense Quality Excellence Award—only the second to be given.

The Magic series of modular computers was developed by GM to operate in severe military environments. More than 10,000 Magic III units are now in the field, with millions of operational hours. Soon one of the newest will become the mission-control computer on the HH-60 Night Hawk, another, with two million words of bubble memory, will be the heart of the MADAR II system on the C-5B; still another will control the LANTIRN navigation and targeting pods.

Delco's Magic IV, all-LSI series reduced size, weight, cost, and power requirements, while enhancing modularity and increasing reliability. Magic IVs do the computing for the Fuel Savings Advisory/Cockpit Avionics System (FSA/CAS) in the KC-135.

For the future, Delco has developed Magic V, an all-VLSI series of computers that will put even greater capability in an even smaller, less expensive package: addressing of up to a million words of memory; throughput of 850 KIPS (DAIS mix); and near 100% fault detection while drawing approximately two watts of power. Magic V has already been selected for a multi-processor configuration with a system throughput in excess of five MIPS.

Delco Systems Operations is just one part of the new group at GM committed to providing the latest in strategic and tactical technology–on time and on cost. The General Motors Defense Group. We're your ultimate ally in the fight for dependable, affordable defense. To enlist our aid, call 1-800-THE-ALLY.

THE ULTIMATE ALLY

GM

GENERAL MOTORS DEFENSE GROUP

Neither heat, nor EMI, nor massive Gs can keep fluidic controls and sensors from their appointed mission.

There's a definite limit to how far you can depend on certain types of sophisticated electronic sensing and control systems for operation in hostile environments.

But at Garrett's Pneumatic Systems Division, our low-cost fluidic sensors and controls — operating with a wide variety of gaseous and liquid media — are performing with high reliability in even the most demanding operational environments.

- A low-cost land navigation system that replaces expensive inertial devices.
- A high-response, low-cost projectile stabilization system that withstands 16,000 G launch forces.
- A gun stabilization system for armored vehicles that provides high-reliability despite severe shock loads.
- A Gatling-gun firing rate control system, unaffected by EMI or high G forces.
- A re-entry vehicle stabilization system, impervious to EMI, EMP, and radiation.
- A simplified turbofan fuel mass-flow meter with no moving parts.
- A direct temperature measurement system that senses up to 2,000° F. gas temperatures.
- And coming soon: A low-cost, lightweight back-up control system for fly-by-wire aircraft.

If conventional control and sensing systems could keep you from your appointed mission, contact Advanced System Sales, Garrett Pneumatic Systems Division, P.O. Box 5217, Phoenix, AZ 85010. Or call: (602) 231-3805.

GARRETT

The Garrett Corporation
One of The Signal Companies

When the a ert sounds, F-18 Hornet drivers must launch in less than f ve m nutes They rely on Garrett hydraulic systems to perform at 3000 ps W thout hes tat on.

Aboard other commercial and m i- tary aircraft such as the A320, 767 and F-16, we app y exper ence gained in over 20 years of hydrau ic systems des gn and product on.

For future applicat ons like the USAF Advanced Tact cal F ghter and Boeing's next generation transport, Garrett is integrating h gh performance systems from 5,000 to 8,000 psi Taking the pressure off des gners by reducing we ght and volume

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First annual C-21A report

Gates Learjet pilots flying C-21As over Arizona, prior to delivery

52 weeks...52 C-21As

On schedule... exceeding the required mission capable rate... over 18,900 flight hours... 20,000 takeoffs and landings... 10 of 16 bases activated.

During its first year in the U.S. Air Force inventory, the C-21A already has established an enviable record of achievement.

In early April, for the 52nd time in as many consecutive weeks, the USAF Military Airlift Command (MAC) accepted a new Learjet C-21A. Since delivery of the first aircraft on April 6, 1984, the USAF C-21A fleet has achieved a mission capable rate in excess of 95 percent. Well above the required 85 percent rate.

In performing its missions of passenger airlift, medical evacuation, and high priority cargo transport, the C-21A fleet has accumulated over 18,900 flight hours and 20,000 landings. In the U.S., Europe and the Far East.

Its sophisticated, well-integrated and reliable systems and equipment provide a cost-effective platform to hone the skills of newly rated pilots and retain the high-level proficiency of veteran crew members.

By October, the Air Force will have taken delivery of 80 C-21As, and the remaining six bases will be operational. And Gates Learjet will continue staying close to all 80 aircraft, providing total logistics support. Our subsidiary, Gates Learjet Aircraft Services Corporation (GLASCO), will continue to ensure that C-21A maintenance manhours per flight hour and overall operating costs remain but a fraction of its USAF CT-39 predecessor.

The C-21A. A U.S. product proudly representing the high quality standards the U.S. Air Force demands of itself and its aircraft. At home and abroad. And ready to meet additional rigid requirements of future Air Force missions.

For full particulars on the C-21A, and other off-the-shelf models in the Learjet family, contact Dane Jenning, Director-Government Marketing, P.O. Box 11186, Tucson, AZ 85734. 602-294-4422

Gates Learjet®

THE F-16 FIGHTING FALCON. UNSURPASSED PERFORMANCE.

Risk-free, multiyear procurement of specially configured F-16Cs could save the American taxpayers $1.3 billion. Purchase of this superior, proven aircraft, equipped to carry out selected U.S. Air Force air-defense and air-to-ground missions, would incur no additional development costs.

GENERAL DYNAMICS

THE F-16 FIGHTING FALCON. UNSURPASSED PERFORMANCE.

The F-16 has been built on schedule and at or below contract cost since production began in 1977. This superb multirole fighter is in service with nine Air Forces and has been selected by 14 nations to fill vital air defense requirements.

The F-16. Standard of excellence for the Air National Guard.

The F-16 Fighting Falcon is the first-line fighter for the United States Air Force as well as the air forces of 11 allied nations.

This high-performance, combat-proven fighter is now operational with South Carolina's 169th Tactical Fighter Group and will soon join Texas' 149th Tactical Fighter Group.

Enhancing their mission capabilities with the fighter that is setting the standard for readiness, reliability and maintainability worldwide is a significant milestone for the Air National Guard.

GENERAL DYNAMICS

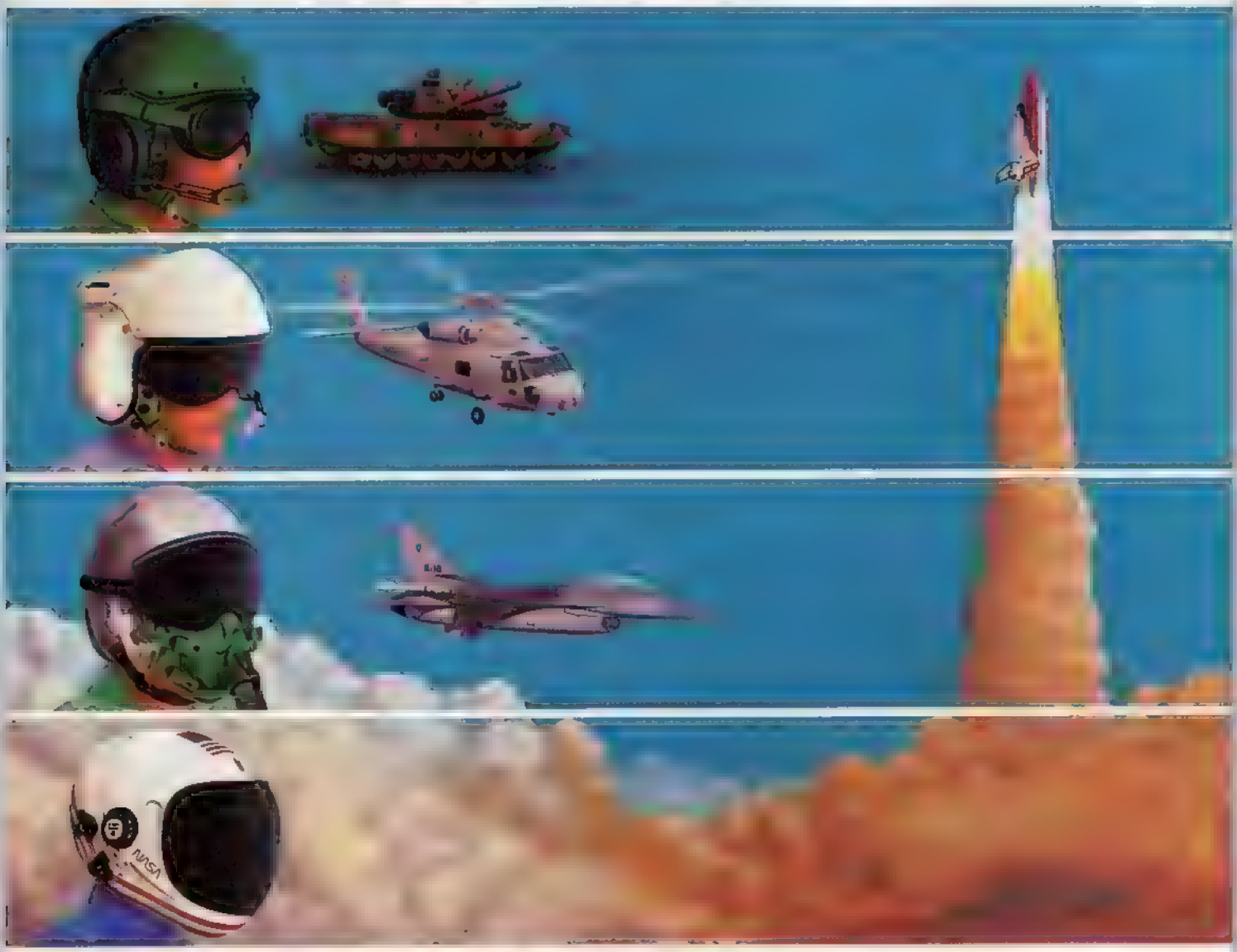
THE F-16 FIGHTING FALCON. UNSURPASSED PERFORMANCE.

A specially configured F-16C for air defense and selected air-to-ground missions has been offered to the U.S. Air Force for a flyaway cost of $9.7 million. Cost and performance of this superb fighter are guaranteed.

GENERAL DYNAMICS

GENERAL ELECTRIC

First on land. First in the air. And first in space.



GENTEX®

Since the dawn of the Jet Age, GENTEX has been the leader in high performance, high quality head protection. As a major supplier for the U S Armed Forces, GENTEX continues to be the innovative industry leader, engineering our products to exacting government specifications and using the finest materials availab e

ON LAND, over a quarter century ago, GENTEX was the first to recognize that tank crews required a better head protection system. We responded by developing the Marine Corps MC-2. Then, a more advanced modular system, the DH-132®, was engineered offering superior head protection plus signif cant improvements in communications. Today, the expanded DH series remains the industry standard and is used by the U.S. Army, U S. Marines, and Allied Armed Forces.

IN THE AIR, GENTEX comb nes high quality with high technology. The current USAF lightweight fighter pilot's helmet, the HGU-55 P, meets the most stringent requ rements of the F-16's high G cockpit Helicopter pilots rely on our lightweight SPH Series helmets, the latest in a long line of SPH helmets which have served the U.S. Navy, Coast Guard and Army for years

IN SPACE, where there's no room for error, the first helmet NASA Shuttle astronauts reach for is the one GENTEX designed specifically for use during takeoff and re-entry.

Because we are a vertically integrated company, GENTEX is able to control the manufacture of our Life Support System components We make our own lenses We build our own respiratory and communications systems We even weave the Kevlar® used in our most advanced designs. Our helmets are a composite of all our corporate skills, resulting in the production of the most advanced head protection systems in the world.

GENTEX – First, in Life Support Systems.

GENTEX
Corporation
P O Box 315
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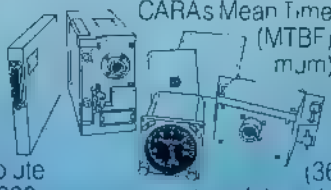
The Gould AN APN-232 Combined Altitude Radar Altimeter (CARA). It's now standard equipment for all U.S. Air Force aircraft. It's also being retrofitted into USAF operational aircraft. Because CARA has superior performance, flexibility and reliability at an affordable price.

As the only solid state radar altimeter capable of providing absolute altitude measurement from 0 to 50,000 feet, CARA incorporates Adaptive Power Control. Transmitter power. Its wide band modulation reduces the probability of intercept and is more resistant to jamming.



CARA's Mean Time Between Failure (MTBF) of 2000 hours (minimum) is a significant improvement compared to other radar altimeter systems (360 hours MTBF). This translates into improved reliability and a lower total cost of ownership.

For more information about CARA and what it can do for you, call (818) 442-0123 (ext. 2485). Or write: Marketing Administration Department, Gould Inc., NavCom Systems Division, 4323 Arden Drive, El Monte, CA 91713. See for yourself why the Air Force is so high on our altimeter. The Gould CARA.

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You'll now find our altimeters in all the above locations.

THE X-29: THE RIGHT TECHNOLOGIES, RIGHT NOW.

The Grumman X-29 is a multi-technology demonstrator. And with each flight it extends the frontiers of aeronautics for the next generation of tactical aircraft.

Its multi-technologies include: Aerolastically Tailored Composite Forward Swept Wing—the X-29 is the world's first supersonic aircraft to employ this wing design.

Thin Supercritical Wing—the X-29 is the first aircraft to test a wing with one-third the thickness of previous supercritical wings.

Relaxed Static Stability—this feature is designed to achieve less drag, more maneuverability, increased fuel efficiency.

Variable Incidence Close-Coupled Canard—this provides primary pitch control, augments lift, and reduces supersonic drag.

Advanced Flight Controls—stability is achieved by a digital fly-by-wire control system that continuously adjusts flight conditions by transmitting up to 40 commands a second.

Discrete Variable Camber—this allows the curvature of the wing to be changed in flight for the best combination of lift and drag for cruise, maneuvering, takeoff, and landing.

Three Control Surface Configuration—the canards, flaperons and strake flaps work together to provide more maneuverability.

All of these technologies are integrated in the X-29. And right now the Grumman X-29 is testing the technologies that are critical to tomorrow's advanced aircraft. Grumman Corporation Bethpage, LI, NY 11714.

GRUMMAN

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Who took 3,000 lbs. out of the B-1B?

Harris did. With EMUX, the most advanced airborne electrical multiplexing system ever developed.

What's missing is a lot of wire and conventional control hardware — not needed because our EMUX does the job without it. This advanced system controls some 13,000 different signals for such major systems as electrical power, engines and weapons via redundant databuses. The key: Programmable hardware that not only computes but also transfers the subsystem data.

Besides slashing weight, allowing more payload and fuel capacity, EMUX reduces cost, fuselage area and crew workload. It also improves reliability and survivability, while ensuring flexibility for the future.

Harris invented Vehicle Interior Multiplexing in the late '60s, and our EMUX has been flight proven since 1974. Ahead of schedule and in full production on B-1B, EMUX is another example of Harris's long and continuing leadership in advanced avionics.

It shows how *Harris Aerospace* meets unique challenges in the information field—by advancing systems technology. Harris Corporation, Government Aerospace Systems Division, Melbourne, FL 32902. Phone (305) 727-5113.

For your information, our name is Harris.

HARRIS

SCIENCE/SCOPE®

An Amraam missile bored through radar clutter to intercept a drone aircraft target in the second guided launch of the full scale development program. The test firing was the third consecutive launch of the advanced medium-range air-to-air missile, under development by Hughes Aircraft Company for the U.S. Air Force and Navy. An F-15 launched the missile in a "look-down, shoot-down" tail-aspect attack while flying at Mach 0.9 approximately 16,000 feet above the desert floor at White Sands Missile Range. The QF-100 target flew at Mach 0.7 only 1,000 feet above the ground. The Amraam flew the first part of its flight under control of its on-board inertial reference unit, using target coordinates provided in prelaunch by the F-15's Hughes APG-63 radar. The missile then switched to its own active radar for guidance and tracked the drone through the heavy ground clutter to intercept.

For the first time, information from NATO's air defense network and AWACS aircraft can be correlated into a single air picture so commanders on the ground can more accurately assess situations and direct fighter interceptors against intruders. The Airborne Early Warning/Ground Environment Integration Segment (AEGIS) relays radar data from AWACS aircraft to more than 40 ground stations throughout Europe. Computers integrate the data with ground-based radar data and feed the information to consoles in NATO Air Defense Ground Environment (NADGE) centers. The key component in AEGIS is a jam proof communications link known as the Joint Tactical Information Distribution System (JTIDS), which provides voice and digital communications between the aircraft and ground centers. The JTIDS Class 1 terminals, provided by Hughes, spread message transmissions in time and frequency to enhance capacity and jam resistance well beyond conventional systems.

Drivers of U.S. Army combat vehicles will be able to help pinpoint targets despite darkness, smoke or haze, thanks to a new infrared imaging unit. The Driver's Thermal Viewer (DTV) is planned for installation in the M1 Abrams tank, M2/M3 Bradley Fighting Vehicles, and M60A3 tanks. It produces a TV-like image by sensing temperature differences among objects in a scene. Although designed as a driving aid, the DTV will have a wide field of view to help the crew acquire targets. The device, designated the AN/VAS-3, is in full-scale engineering at Hughes.

Malaysia is guarding its skies against intruders with a new automated air defense system. The Malaysian Air Defense Ground Environment (MADGE) detects and identifies all aircraft approaching Malaysian airspace. It uses advanced data processing equipment, large-screen displays, new communications systems, and a modern three-dimensional long-range radar. Should aircraft be identified as threats, commanders can order fighter interceptors to take defensive actions. The Hughes system forwards target data from radars located throughout the nation to command centers, where computers process and display information.

A device that evaluates military lasers instantaneously is giving industrial and government laboratories new capabilities for measuring the performance of lasers. The computerized system, called an automatic laser test set (ALTS), monitors and stores information such as beam energy, divergence, misalignment, pulse shape, pulse spacing, and pulse stability during a laser's warm-up period. It detects variations that cannot be determined by conventional techniques, which use electro-optical/mechanical apertures and take an average of multiple pulse measurements By evaluating variations from pulse to pulse, engineers can improve future laser system requirements and specifications. Hughes supplies ALTS to the U.S. Army.

For more information write to: P.O. Box 45068, Dept. 75-3, Los Angeles, CA 90045-0068

HUGHES AIRCRAFT COMPANY

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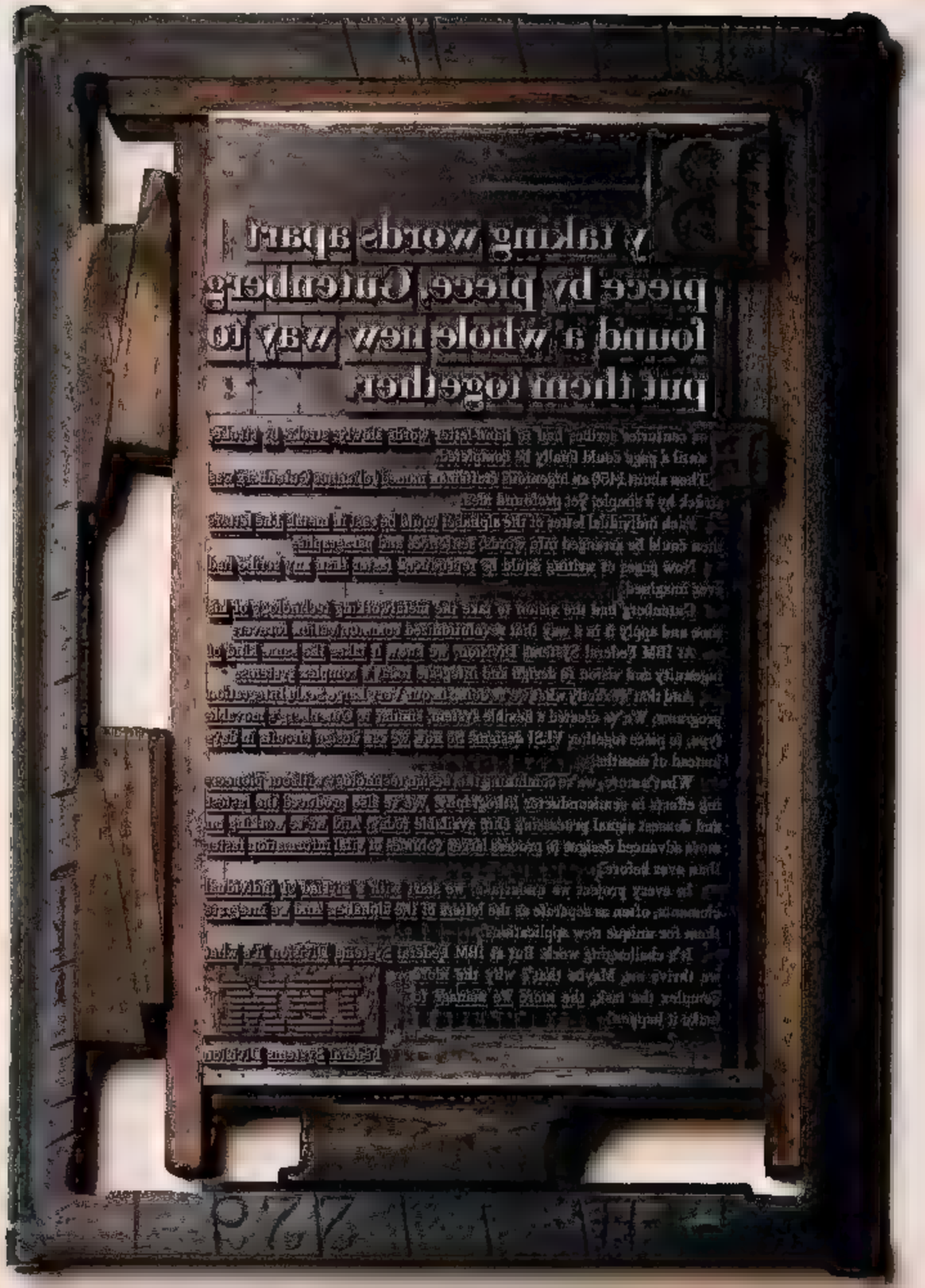
The Electronic Shield for Tomorrow's Aircraft

A joint venture of two national resources, teamed to deliver an integrated, full spectrum, self-protection system for the Navy and Air Force next generation tactical aircraft.

A team our aircrews can bet their lives on.

HUGHES / LORAL COMPANY

Hughes Aircraft Company and Loral Corporation



By taking words apart piece by piece, Gutenberg found a whole new way to put them together.

For centuries scribes had to hand-letter words slowly, stroke by stroke, until a page could finally be completed.

Then about 1450 an ingenious craftsman named Johannes Gutenberg was struck by a simple, yet profound idea.

Each individual letter of the alphabet could be cast in metal. The letters then could be arranged into words, sentences and paragraphs.

Now pages of writing could be reproduced faster than any scribe had ever imagined.

Gutenberg had the vision to take the metalworking technology of his time and apply it in a way that revolutionized communication forever.

At IBM Federal Systems Division, we know it takes the same kind of ingenuity and vision to design and integrate today's complex systems.

And that's exactly what we're doing in our Very Large Scale Integration programs. We've created a flexible system, similar to Gutenberg's movable type, to piece together VLSI designs. So now we can design circuits in days instead of months.

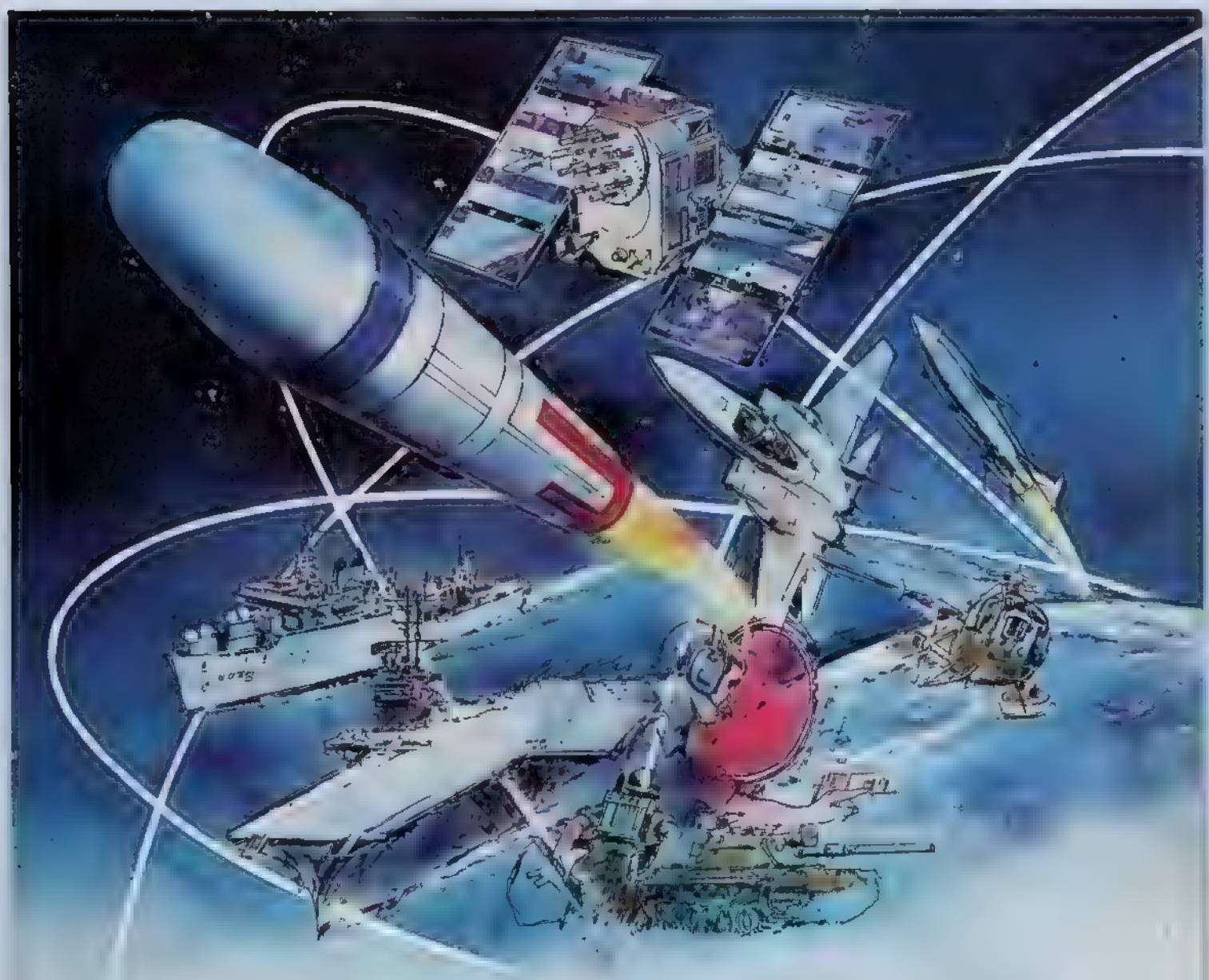
What's more, we're combining this design technology with our pioneering efforts in semiconductor lithography. We've also produced the fastest and densest signal processing chip available today. And we're working on more advanced designs to process larger volumes of vital information faster than ever before.

In every project we undertake, we start with a myriad of individual elements, often as separate as the letters of the alphabet. And we integrate them for unique new applications.

It's challenging work. But at IBM Federal Systems Division it's what we thrive on. Maybe that's why the more complex the task, the more we manage to make it happen.

IBM®

Federal Systems Division



Interstate. First in GPS tracking.

Experience counts when you're looking for GPS tracking capabilities for Tri-Service Test and Training Ranges.

State-of-the-art GPS availability. Interstate is already well into the development of second generation GPS equipment for range tracking for the Trident II strategic weapons system. This experience, plus the associated hardware and software under development, provides a cost-effective, low-risk approach for DOD range tracking applications.

Proven and operational. From the Fleet Ballistic Missile program's inception in 1956, Interstate has been the prime contractor for instrumenting the Navy's Polaris, Poseidon and Trident missile programs. For the past ten years under the Trident I program, we've pioneered many new concepts in precision range tracking utilizing the Global Positioning System. These concepts are in operational use today

Technology is in place. Interstate's GPS tracking experience is supported by a strong foundation—all the required operations capabilities of design, manufacture, installation, test and field support are already in place.

Count on Interstate. Since our formation twenty-eight years ago, Interstate has served the military as an innovative developer of advanced technology and systems. The GPS program now affords us the opportunity to apply our proven performance record to Tri-Service Test and Training Ranges. Because at Interstate, we know experience counts.

For details, contact: Director of Business Development, Navigation and Range Systems, Interstate Electronics Corporation, P.O. Box 3117, Anaheim, CA 92803, Telephone (714) 758-0500.

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The AN/USH-24(V) is here to serve you and your specific recorder requirements. Now add Tempest approved to MIL-E-5400 and MIL STD 16400.

The AN/USH-24(V). The *only* magnetic tape recorder/reproducer system available that is *multi* service approved for airborne, shipboard, and ground hostile environment adds the additional capability of meeting your requirements for Tempest approved equipments.

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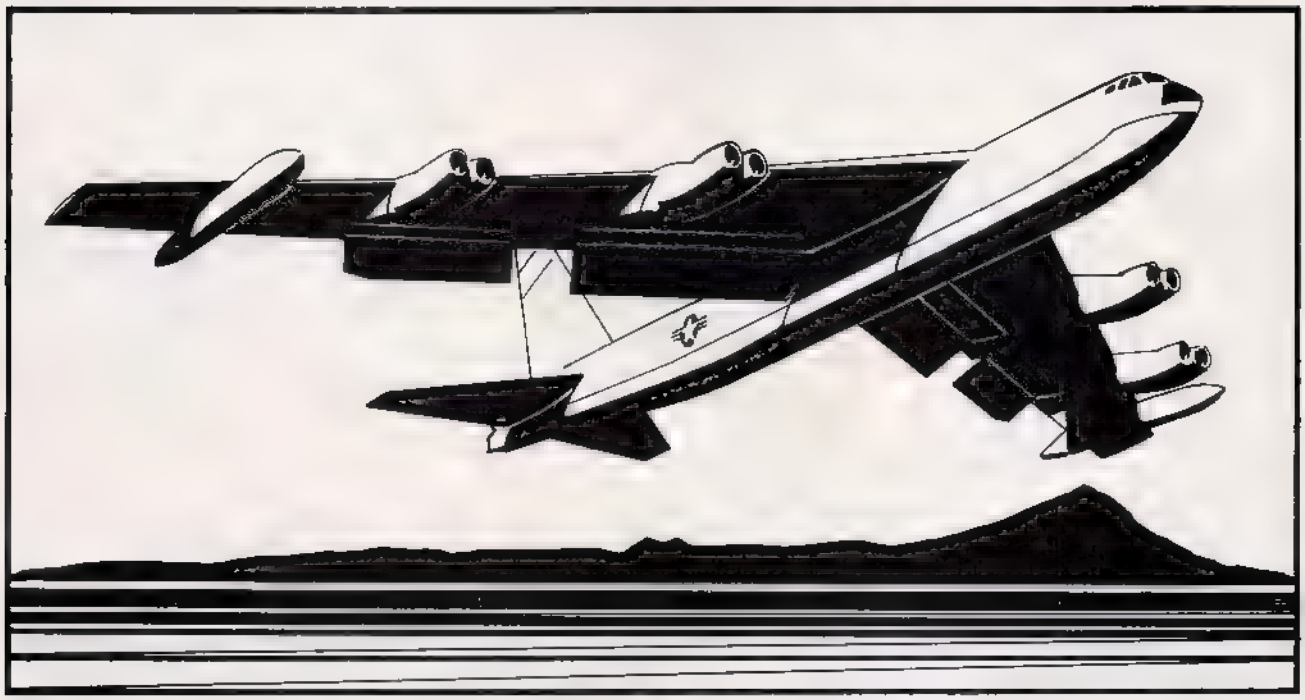

TO THE **LATEST** .....

We were the first.

We invented the AIR DATA COMPUTER -For the B52 which continues to fly today after 31 years of service

Kollsman's latest proposed solid state air data computer is microprocessor-based and features:

- 1750 architecture
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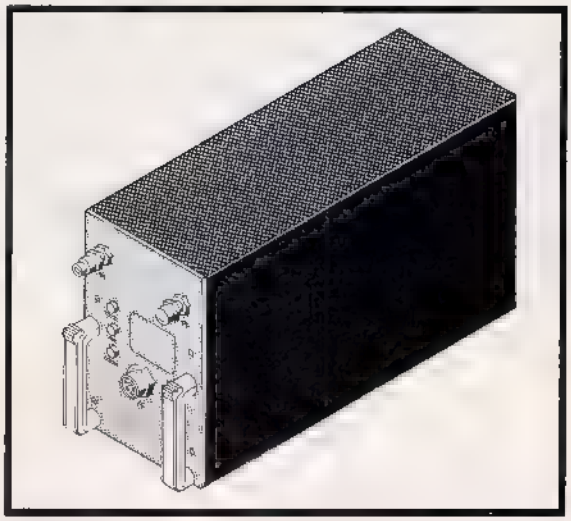

In other words.... the latest technology.

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To the United States Air Force and Rockwell International

CONGRATULATIONS

to a great team

In June the first operational B-1B will be accepted in ceremonies at Offutt AFB and Dyess AFB.

With each new flight, as it passes milestone after milestone, the B-1B carries the spirit and pride of LTV Aerospace and Defense Company. From the beginning, we've been proud to be a part of the team that created the B-1B.

First Delivery: 29 June 1985 Dyess AFB

LTV Aerospace and Defense
Vought Aero Products Division

A-7 STRIKEFIGHTER

A new "A-7 Plus" Corsair re-engineered to deliver a new standard in Close Air Support/Battlefield Air Interdiction

Already a legend in its ability to deliver weapons on target accurately and efficiently, the A-7 is being enhanced to accomplish the CAS/BAI role well into the 21st century. Vought Aero Products, a division of LTV Aerospace and Defense Company, will remanufacture the A-7 from the ground up—giving it more power, more speed, more agility and survivability, more capability and performance straight across the board.

More accurate under-the-weather CAS/BAI

It will carry the very latest advanced technology digital avionics for enhanced navigation, C^3I, FLIR and weapons delivery capabilities in weather, day or night.

The A-7's performance envelope is increased dramatically with a high-thrust afterburning engine. With double the thrust of existing A-7's, the new engine boosts its agility and payload and thus its survivability and effectiveness.

On the other end, takeoff roll is decreased by 45 percent, further enhancing the A-7 Strikefighter's ability to operate from more small, unimproved or damaged airfields.

Better performance all around

Automatic maneuvering flaps, together with its new afterburning engine, give the aircraft greater agility and survivability throughout every phase of the mission. The pilot can "turn and burn"...be in and out faster. He's no longer limited to a smooth, straight in approach to the target, he can now make evasive maneuvers right up to the moment of weapons release. Moreover, with a full 15,000-lb load (a wide mix of bombs, rockets and 20mm cannon), he can loiter on station for up to an hour and a half.

The Corsair's toughness is already legend. In conflicts around the world, the A-7's rugged airframe has repeatedly demonstrated its ability to withstand punishment and still get the job done and get back home.

The low-cost, high-capability answer

The A-7 Strikefighter is specifically engineered to do the job better, more efficiently and economically. An existing asset, its low conversion price and low cost of ownership combine to make it the most affordable, effective and capable solution to Close Air Support, Battlefield Air Interdiction through the year 2010.

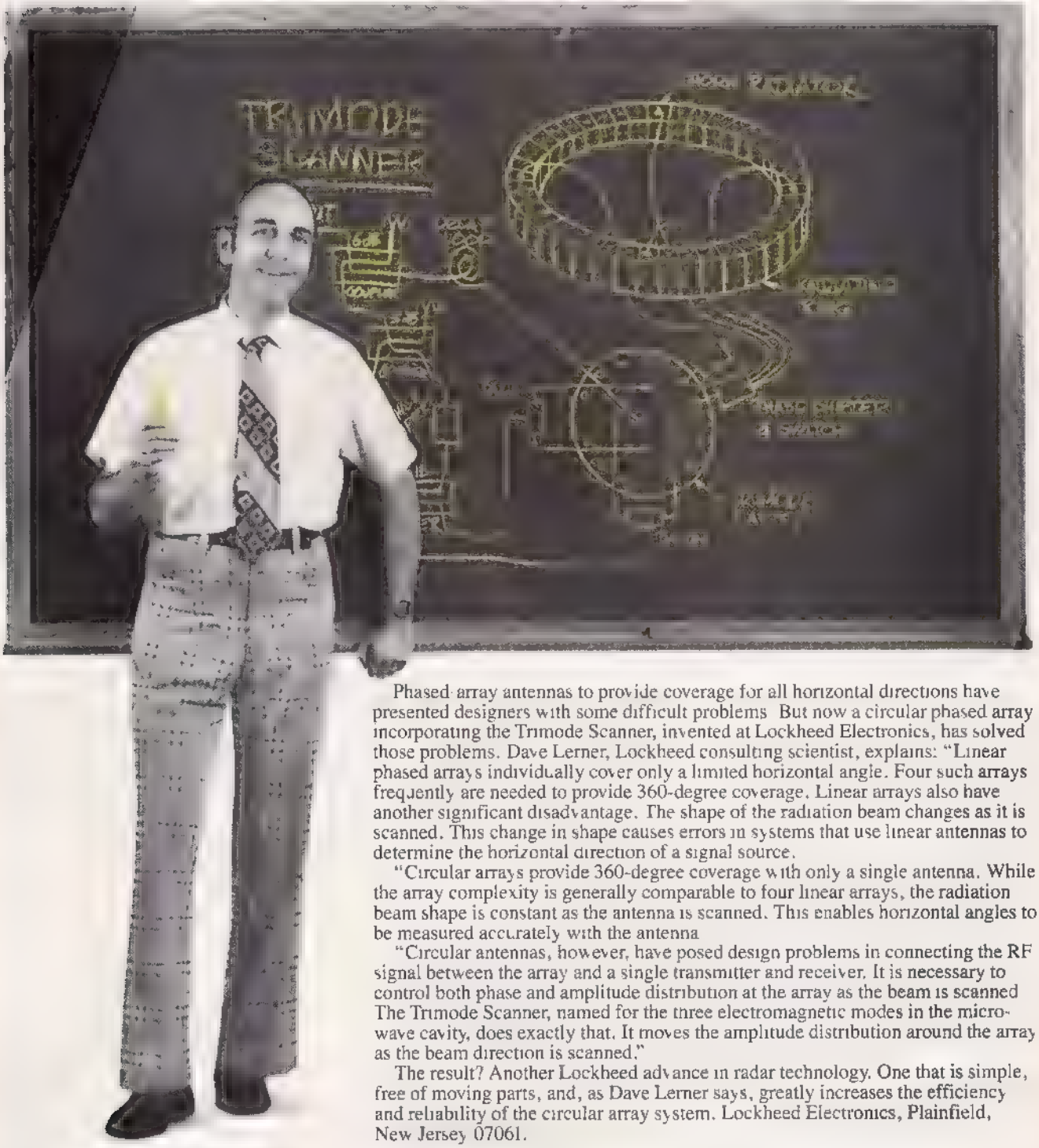
LTV Aerospace and Defense Company, Vought Aero Products Division, P.O. Box 225907, Dallas, Texas 75265

Aerospace and Defense
Vought Aero Products Division

LTV: LOOKING AHEAD

Radar Technology on the move.

Dave Lerner on a new approach to omnidirectional coverage.



Phased-array antennas to provide coverage for all horizontal directions have presented designers with some difficult problems. But now a circular phased array incorporating the Trimode Scanner, invented at Lockheed Electronics, has solved those problems. Dave Lerner, Lockheed consulting scientist, explains: "Linear phased arrays individually cover only a limited horizontal angle. Four such arrays frequently are needed to provide 360-degree coverage. Linear arrays also have another significant disadvantage. The shape of the radiation beam changes as it is scanned. This change in shape causes errors in systems that use linear antennas to determine the horizontal direction of a signal source.

"Circular arrays provide 360-degree coverage with only a single antenna. While the array complexity is generally comparable to four linear arrays, the radiation beam shape is constant as the antenna is scanned. This enables horizontal angles to be measured accurately with the antenna.

"Circular antennas, however, have posed design problems in connecting the RF signal between the array and a single transmitter and receiver. It is necessary to control both phase and amplitude distribution at the array as the beam is scanned. The Trimode Scanner, named for the three electromagnetic modes in the microwave cavity, does exactly that. It moves the amplitude distribution around the array as the beam direction is scanned."

The result? Another Lockheed advance in radar technology. One that is simple, free of moving parts, and, as Dave Lerner says, greatly increases the efficiency and reliability of the circular array system. Lockheed Electronics, Plainfield, New Jersey 07061.

Engineers interested in contributing to advanced electronic systems are invited to write Employment Manager at LEC, Plainfield, New Jersey 07061.

Lockheed Electronics

Leadership in Technology

Innovation

Turn proven hardware into all-new C-5Bs to increase America's airlift strength

Lockheed-Georgia
Giving shape to imagination.

Marietta, Georgia—January 1985

Major assembly is continuing rapidly on the first of the new USAF C-5Bs. After its first flight this fall with one of the 77 C-5As already in service with the Military Airlift Command.

The fixed-price program calls for Lockheed-Georgia to produce 50 C-5Bs making America's outsize cargo capacity 65% greater and dramatically expanding airlift—the backbone of deterrence.

This will increase the nation's ability to airlift fully assembled helicopters, infantry fighting vehicles, self-propelled artillery, M-1 tanks, and all other needed equipment to any part of the world with the speed necessary for effective deployment.

Moreover, the new C-5Bs will significantly enhance operations through such improvements as a simplified automatic flight control system, color weather radar that is lighter and more reliable, a digital air data computer, and a highly advanced navigation/communications system.

The C-5B also will have improved engines with increased reliability. And much of the aircraft will employ new alloys that are stronger and more corrosion-resistant. Other advances enhance its maintainability.

As assembly continues at Marietta, Georgia, the C-5Bs is meeting or exceeding all program quality requirements. One result of our new, modern machines and production methods.

It is also a testimonial to the skill and energy of the people at Lockheed-Georgia, as well as workers at Lockheed's suppliers in 47 states.

With the C-5B, they are not only building the free world's biggest airlifter, they are building it better.

Innovation

Touch down where the battle is touch and go.

No matter how remote the target. No matter how rough the terrain. Hercules delivers the men who get the job done. Through more than three decades of conflict in all parts of the globe, no other tactical airlifter has come close to matching the accomplishments of the versatile, durable Herc and its crews.

C-130 Hercules:
the affordable true tactical airlifter.

Lockheed-Georgia
Giving shape to imagination

Lockheed-Georgia
Giving shape to imagination.

**Marietta, Georgia–
June 1985**

When the first new USAF C-5B rolls out of the factory this July, it will be ready to start functional preparation for test flights and delivery.

An innovative Lockheed approach to "doing it right the first time" has created an airlifter with built-in integrity.

A special Lockheed first article quality assurance tracking system has resulted in a 99% initial acceptance rate of over 42,000 components in the first C-5B.

In addition, Lockheed's computer-aided Real-time Assembly Status Tracking System (ASTS) links a powerful mainframe with 30 satellite terminals in manufacturing areas and managers' offices. This gives instant access to the status of all assembly operations in progress. ASTS is one of the tools Lockheed uses to keep production on schedule, use manpower efficiently, anticipate requirements and adjust unforeseen circumstances. It is helping Lockheed management keep the first C-5B on schedule.

In May the aircraft received its wing. By late June the engines will be mounted and final assembly will be well advanced. Before year-end the first of the new C-5Bs will go directly into service with the 77 C-5As now flying operational missions with the Military Airlift Command. Each successive new C-5B also will go to work immediately.

This expanded C-5 force will dramatically increase America's capacity to carry everything from pallet-size cargo to trucks, helicopters, and massive M-1 tanks wherever they're needed. These aircraft will maintain unit integrity as well by delivering personnel together with their equipment.

Well into the next century they will give the United States the capability for rapid, reliable airlift of its men and equipment wherever they are needed around the globe.

IRCM

THE ULTIMATE DISTRACTION

Heat-seeking missiles are best countered by confusion. Electronic modulation of an IR source provides this confusion, protecting the host vehicle against unlimited IR missile interceptions throughout its full mission.

These electronically modulated nonexpendable IR source systems are referred to as Active Infrared Countermeasures (IRCM) systems. They have repeatedly demonstrated the capability to divert multiple IR [illegible] tracking subsystems from their intended [illegible].

[illegible] is the recognized leader in the development and production of Active IRCM systems for both US and foreign allied forces. Loral EOS IRCM systems have long been produced for a wide variety of fixed and rotary wing aircraft in search and rescue applications, on shipboard and landbased vehicles.

Loral EOS AN/ALQ-123 and AN/ALQ-157 IRCM systems protect US Navy tactical aircraft and heavy lift helicopters respectively, and the AN/ALQ-157 has demonstrated its versatility throughout successful testing and operations on US Air Force transport aircraft.

Loral EOS is in production of its newest modularized IRCM system, Matador. This new IRCM technology provides multithreat protection for an unprecedented variety of US and foreign platforms including high speed patrol boats, helicopters, ships and landbased vehicles, observer and tactical aircraft and wide body jumbo jets.

Matador IS effectiveness, flexibility, growth, reliability, maintainability, adaptability, and commonality for multiservice requirements. No other system can match Matador's life cycle cost advantage.

Loral Electro-Optical Systems is an organization with twenty-nine years experience in solving problems in areas of infrared countermeasures, information processing, space systems, and tactical training systems. Our capabilities span research, systems analysis, engineering development, high volume manufacturing, and total life-cycle integrated logistic support for our products. Our IRCM systems are examples of low cost, reliable equipment which perform this critical function. And no one does it better.

Loral Electro-Optical Systems 300 N. Halstead Street P.O. Box 7001 Pasadena, CA 91109 818/351-5555

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ELECTRO-OPTICAL SYSTEMS

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Equal Opportunity Employer. U.S. Citizenship Required.

Nobody can control the weather. But Lucas Aerospace have a complete range of high-technology control systems you can trust—even in the worst weather.

We produce airframe and propulsion system controls using digital electronic, hydromechanical, hydraulic, pneumatic, electrical, and electromechanical technology for a wide range of aircraft, helicopter and weapons systems, including the A310, Boeing 757, Tornado ADV, the US Coastguard Dolphin and a wide range of missiles, such as AMRAAM, ALARM and HARM.

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Technology you can trust

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Magnavox
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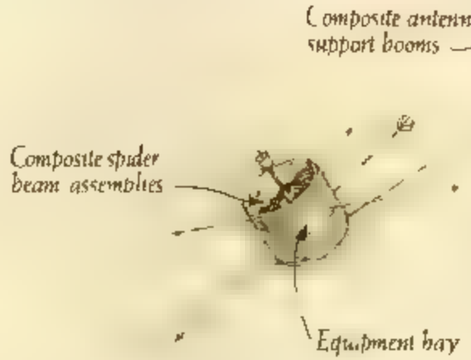
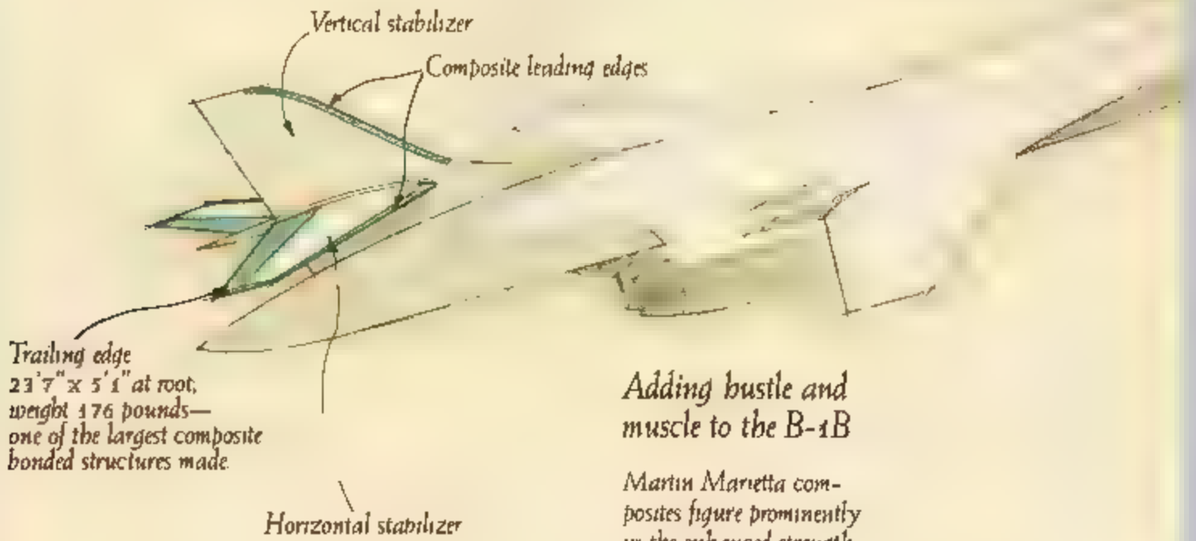
Advanced composites. a material factor in mission success.

The success of many next-generation aerospace and defense systems depends on the development of new-generation structural materials. At Martin Marietta, our progress in composites—from their chemistry and curing through tooling, manufacturing, testing and application—is advancing the science of materials and insuring the success of systems that must travel faster, farther and survive in environments more hostile than ever before.



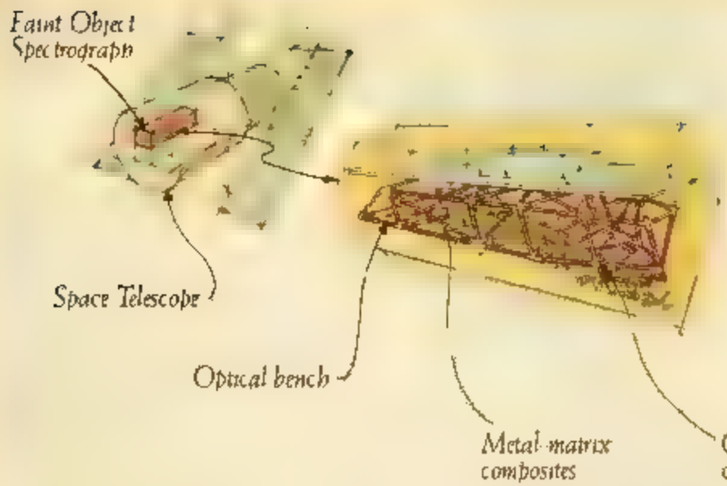
Scaling down SCATHA's weight

The USAF's operational spacecraft for Spacecraft Charging At High Altitudes takes full advantage of graphite/epoxy composites. These materials have cut the weight of SCATHA's booms and spider beams by 50 percent, and dramatically reduced thermal expansion.


Vertical stabilizer
Composite leading edges
Trailing edge
23'7" x 5'1" at root, weight 176 pounds—one of the largest composite bonded structures made
Horizontal stabilizer

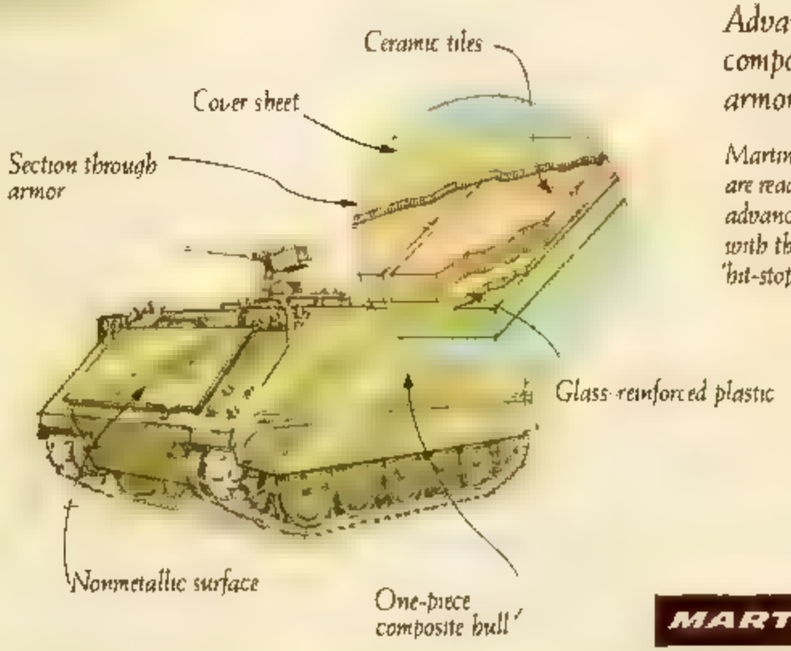
Adding bustle and muscle to the B-1B

Martin Marietta composites figure prominently in the enhanced strength and reduced weight of the B-1B's stabilizers and mode control vane—adding to aircraft speed, range and reliability.



High-dimensional stability for the FOS

The Faint Object Spectrograph relies on Martin Marietta metal-matrix composites to provide a dimensionally-stable optical bench which will enable NASA's Space Telescope to accurately measure light from distant galaxies and stars.



Advanced composites strengthen armored vehicles.

Martin Marietta composites are ready to provide advanced armored vehicles with the toughest, most "bit-stopping" armor made.

MARTIN MARIETTA

Martin Marietta Aerospace
6801 Rockledge Drive Bethesda, Maryland 20817

OUR COMMITMENT IS TOTAL. OUR CAPABILITIES ARE PROVEN. OUR MISSION IS SUCCESS.

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C-17

"C" as in can do

NEW AIRLIFTER'S KEY TECHNOLOGIES ARE ALL FLIGHT-PROVEN.

Land on a 3,000-ft. runway with 172,200 pounds of combat equipment. Turn around in 90 feet. Back up a two percent slope. Unload on the run. This isn't wishful thinking. It's the C-17. Its supercritical wing, externally-blown flaps, and directed-flow thrust reversers were thoroughly proven in the highly successful YC-15 prototype program and refined in more than 4,500 hours of wind tunnel testing. By first flight, the engines will have accumulated an estimated four million flight hours in commercial airline service. The C-17 is now in development for rollout in 1989. But we already know how well it can do the job.

MCDONNELL DOUGLAS

BREAKTHROUGH: WEAVING LIGHTNESS AND STRENGTH INTO AIRPLANES.

The lighter an airplane is, the farther it can go or the more it can carry.

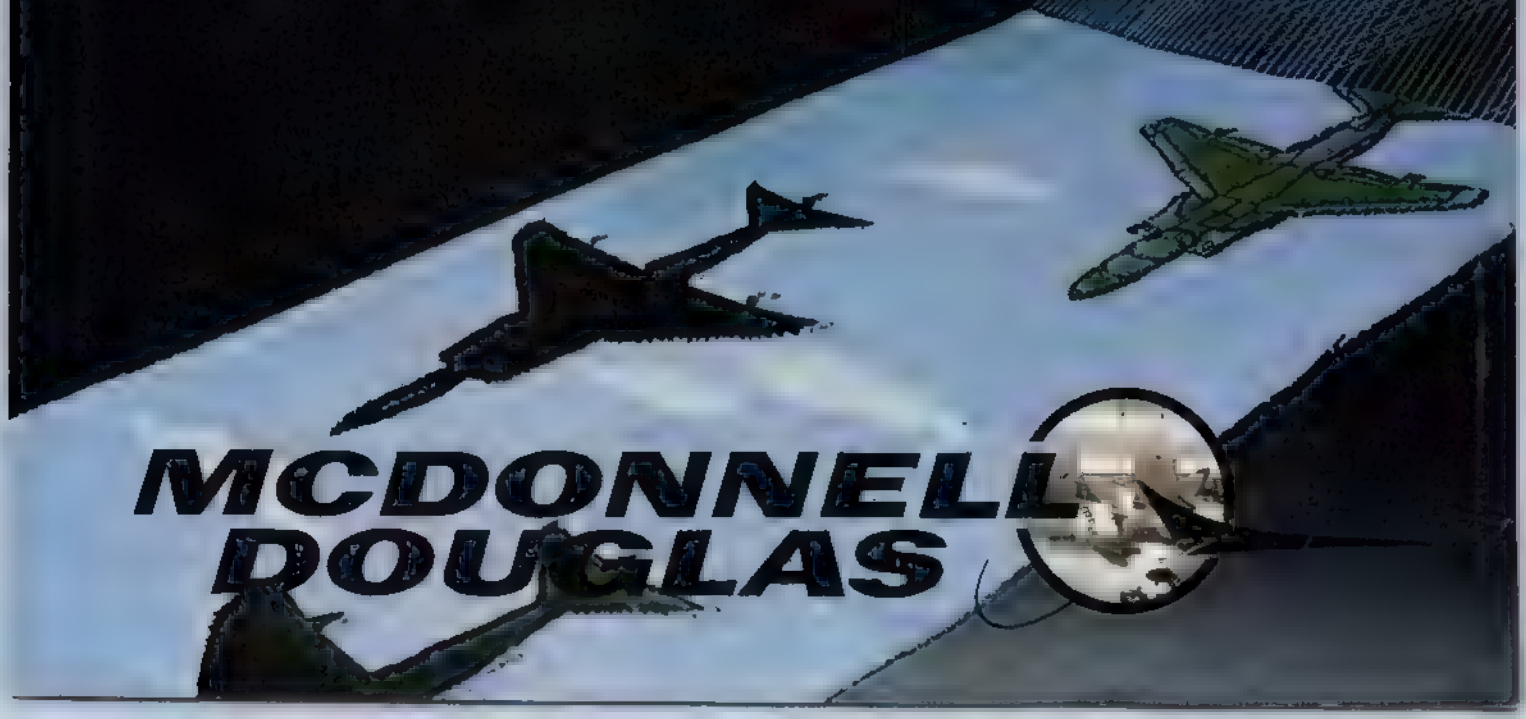
The problem: How to reduce weight while maintaining strength. Our solution: Use lightweight, high-strength carbon fibers.

We cut sheets of carbon cloth–thin filaments, woven together–to a precise shape. We build them up, layer by layer, to give them strength. Soft and pliant, these stacks of composite cloth are easily shaped to aerodynamic forms, then cured under pressure at high temperatures.The result: Wings and other parts that are lighter and more resistant to corrosion and have longer life than comparable metal parts.

Because of our use of carbon-epoxy composites for more than 25% of our Harrier II structure, America has a plane that can land or take off vertically–and go twice as far or carry twice as much as earlier models.

We're making breakthroughs not only in aerospace but also in such fields as health care, information processing and lease financing.

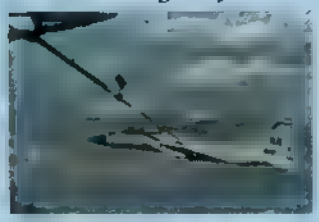
We're McDonnell Douglas.



MCDONNELL DOUGLAS

THE KC-10. AN EQUAL OPPORTUNITY TANKER.

Nobody's left high and dry when there's a KC-10 in the air. With its flying boom *plus* independent hose reel drogue system, it's the first tanker which can refuel receptacle-equipped and probe equipped aircraft on the same flight.



The value of the KC-10 tanker cargo aircraft not only to the U.S. Air Force but to the U.S. Navy, Marine Corps and our NATO allies is becoming more apparent as the variety of missions grows. USAF aircraft need to be refueled by a flying boom; USN, USMC, and NATO aircraft require the hose reel method. The KC-10 stands ready to service both kinds of receiver demands without landing and having ground maintenance personnel reconfigure the aircraft.

The KC-10 demonstrated its versatility during recent joint USN USAF exercises at sea. During the course of "Ocean Venture" in 1982, one KC-10, on four missions, gave mixed air refueling to a total of 23 Navy receivers and 48 Air Force receivers. The KC-10 was hailed as "truly a force multiplier" that had extended the carrier battle group's influence without additional fighter forces.

The KC-10 adds "interoperability" to any inter-service or multinational joint air operation. All receivers have an equal opportunity for immediate refueling support from any KC-10 in the air.

KC-10 EXTENDER. PROMISES DELIVERED.

MCDONNELL DOUGLAS

OSHKOSH TECHNICAL REPORT

Improved Performance With Articulated Design

The Oshkosh Model DA series crash truck represents a revolutionary engineering achievement in aircraft rescue and firefighting design. The advancements the DA series offers over conventional vehicles are the result of four major design innovations.

- AN ARTICULATION JOINT AT THE VEHICLE'S CENTER WITH YAW AND ROLL CAPABILITY
- SYNCHRONIZED YAW AND FRONT AXLE STEERING
- FRONT AND REAR TANDEM DRIVE AXLES WITH LOW PRESSURE TIRES
- BALANCED SIX-ROD SUSPENSION SYSTEM

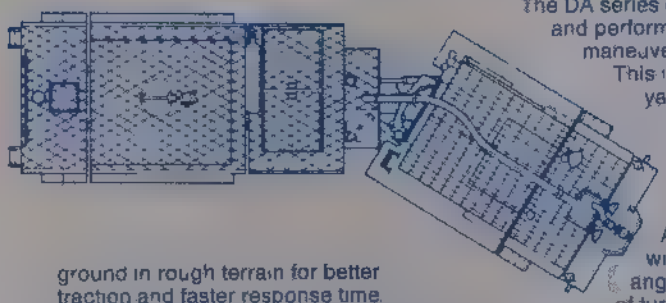
These design features provide the benefits of faster speeds off-runway, better obstacle avoidance and greater mobility.

FASTER SPEEDS OFF-RUNWAY

A balanced six-rod suspension on tandem front and rear axles reduces frame rise by 50% when traveling over bumps and uneven terrain. This provides a far superior ride, allowing a faster response time than a vehicle with single axles, or a vehicle with tandem axles independently suspended.

Because the DA series has eight driving wheels, 24R21 tires can be used at a low inflation pressure of 25 psi (1.72 bar). Tires operating at this low pressure act as shock absorbers, further improving the ride quality and permitting faster speeds off-runway.

The combined yaw and roll action of the articulation joint, along with the superior wheel travel of the suspension system, keeps all driving wheels on the ground in rough terrain for better traction and faster response time.



The DA series can turn out of deep ruts and perform complex turning maneuvers in poor soil conditions. This is made possible by the yaw and roll capability of the articulation joint, and the 50% reduction in the steering axle cramp angle, which reduces cornering forces. A conventional vehicle with full steering cramp angle may not be capable of turning out of its ruts.

BETTER OBSTACLE AVOIDANCE

Maneuvering around obstructions with the center articulated DA series is a key factor in the higher performance of this vehicle. The articulation joint provides yaw steering which is synchronized with a steering front axle. This combination provides a 26% tighter wall-to-wall clearance circle when turning than a straight-frame vehicle with the same wheelbase. It also results in 38% less tire wear.

The balanced six-rod suspension provides sufficient wheel travel to climb obstacles up to 24 inches (610 mm) saving the time of going around them.

GREATER MOBILITY

In soft ground conditions, where a conventional vehicle would be immobilized, the DA series can "duck walk" its way to the crash scene with articulated steering.

The low tire inflation pressure of 25 psi (1.72 bar) reduces ground contact pressure and optimizes the self-cleaning action of the tire tread. Three different tire tread patterns are available that can be matched to soil conditions for maximum performance.

The ability of any vehicle that is used in a hostile environment to self-recover is its single most important feature. In most situations, the DA series has the ability to self-recover in seasonally poor soil conditions. When temporarily immobilized in soft ground, it self-recovers by "duck walking," allowing the wheels to seek firmer ground and better traction.

The DA series is the culmination of an extensive development and test program. Its superior mobility, speed and fire suppression capability will greatly improve the security of aircraft and crew.

OSHKOSH®

Oshkosh Truck Corporation,
Post Office Box 2566,
Oshkosh, WI., 54903-2566, U.S.A.
Telephone 414-235-9150,
Telex 260197, TWX 910-266-1060

Radio-controlled vehicles...
you command the action

$39.99 Drive through grass, sand, pebbles, over bumps with this 4-wheel-drive Pickup. Goes forward, reverse, with right or left turn. 2 speeds. Plastic jet body. Climbing action has 4-wheel drive; vehicle makes its own surface, so road-way. Transmitter has 6-ft. outdoor, 30-ft. indoor range. Operates on 27 MHz frequency. Plastic with metal parts imported. Requires 4 AA and two 9-volt batteries (not included; sold at right). See note at right.
For ages 8 years and up.
49 N 54001—Shpg. wt. 3 lbs. 6 oz. **$39.99**

$79.99 2-Door, 2-wheel-drive through rough terrain with the Dune Runner™ 3 Wheeler. This 3-wheel authentic-styled Honda® ATC lets you go forward, right, left, return or reverse. Has 2 speeds, so you race up to 12 MPH! Do-it-yourself, with wheelies, high or low gear, engine, high speed, chases. Digital proportional steering for great maneuverability. Remote start and stop. Plastic radio control transmitter has 100-ft. outdoor, 60-ft. indoor range. Operates on 27 MHz frequency. Plastic with metal parts imported. Requires 12 AA-size batteries (not included; see note at right). Rechargeable battery (not included; see note at right). Recharger sold below. Warranted by mail; write for free copy; see page 323. See note below right.
For ages 6 years and up.
Shipping weight 3 lbs.
49 N 54010 . . . . . **$79.99**

Battery Recharger for 12-Volt Listed.
Shipping weight 8 oz.
49 N 54343 . . . . . **$8.99**

$24.99 3- and 4-Set your course with a 2-speed racing Chevy Pickup or Camaro Z-28. Each has a transmitter with a 60-ft. outdoor, 30-ft. indoor remote start and stop. Plastic body and chassis. Each includes 5 pieces to set your course. Plastic with metal parts imported. Each requires 2 AA and two 9-volt batteries (not included; see note at right). See note below right. For ages 8 years and up.

3—Chevy Pickup has a sound that really opens. Operates on 49 MHz frequency. 36" long.
49 N 54333—Shpg. wt. 1 lb. 2 oz. **$24.99**

4—Camaro Z-28 operates on 27 MHz frequency. 9" long.
49 N 54205—Shpg. wt. 1 lb. 3 oz. **$24.99**

Your choice **$19.99** 5- and 6-Go forward, right or left and backing, reverse with a beep! Color-Prefect 2 speeds let you drive fast or slow. Plastic radio-control transmitter with 60-ft. outdoor, 30-ft. indoor range. On-off switch, fast and slow speeds. Plastic with metal parts imported. See note at right. For ages 8 years and up.

5—Jeep® CJ operates on 27 MHz frequency. 7" long. Requires 2 AA two 9-v batteries (not included; see note at right).
49 N 54332—Shpg. wt. 1 lb. 1 oz. **$19.99**

6—Ford pickup operates on 49 MHz frequency. 9" long. Requires 3 AA two 9-v batteries (not included; see note at right).
49 N 54221—Shpg. wt. 1 lb. 3 oz. **$19.99**

$9.99 7—New at Sears! This 1984 Corvette cruises forward, returns in reverse and has sleek body design introduced in 1954. Transmitter has 60-ft. outdoor, 30-ft. indoor range. Operates on 49 MHz frequency. Plastic with metal parts imported. Requires 4 AA and one 9-v batteries (not included; sold at right. See note at right. For ages 8 years and up.
49 N 54023—Shpg. wt. 1 lb. 2 oz. **$9.99**

$14.99 8—Authentic-looking Police Car goes forward, reverses, turns right, left, works by remote control. Has 60-ft. outdoor, 30-ft. indoor range. Plastic with metal parts imported. Requires 4 AA and one 9-v batteries (not included; see note at right). See note below.
For ages 5 years and up.
49 N 54348—Shpg. wt. 1 lb. 14 oz. **$14.99**

Ni-Cad Battery Charger. For up to 4 AA, C or D size two 9-v batteries with, requires 4 hours to charge. Listed.
49 N 46408—Shpg. wt. 1 lb. 4 oz. **$12.99**

Battery Charger for batteries with recharges 9-volt model to 1000 times. Listed.
49 N 46446—Shpg. wt. 4 oz. **$3.99**

C and D size Rechargeable Ni-Cad batteries

Size	Pkg. of	Catalog No.	Wt.	Price
C Batteries with charger module, Listed				
AA	2	49 N 46428	2 oz.	$5.99
C	2	49 N 46429	2 oz.	6.99
9-V	1	49 N 46444	1 oz.	7.99
D Batteries with charger module, Listed				
AA	2	49 N 46430	4 oz.	$6.99
C	2	49 N 46429	4 oz.	7.99

DeHard AA Alkaline Batteries. Pkg. of 2.
49 N 30909—Shpg. wt. 2 oz. . . . . Pkg. **$1.79**

DeHard C Alkaline Batteries. Pkg. of 2.
49 N 30929—Shpg. wt. 6 oz. . . . . Pkg. **$2.19**

Alkaline 9-volt DeHard Battery.
49 N 30929—Shpg. wt. 2 oz. . . . . Each **$2.19**

NOTE: Items on these pages meet FCC requirements. No notice required. Do not operate in the 72-76 MHz band or near garages.

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Sweep back the wings, retract the landing gear and zoom off to complete maneuvers in this giant SkyStriker XP14-F (nearly 2 feet long)! If the enemy strikes, remove the ejection seats and parachute to the ground
12
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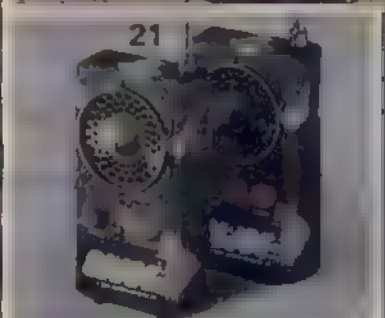

(1 thru 8) The G Joe team is ready for action from the C O B R A enemy. Posable 3¾ figures. Plastic vehicles. Sets incl all pieces pictured. For ages 5 years and up.

(1) *Only at Sears!* Bridgelayer attack vehicle carries a portable bridge for all G Joe size vehicles. Tank Booth, GI Joe figure not
49 N 59361—Shipping weight 3 pounds $14 99

(2) *Only at Sears!* The G I Joe Jeep® pulls a laser cannon that swivels, rotates. Jeep, cannon not figures not included
49 N 59357—Shipping weight 1 pound $9 99

(3) Six G I Joe "bad guys"—Intelligence Ant Armor Ninja Saboteur Destro and Cobra Commander. Weapons etc
49 N 59329—Shipping weight 10 ounces . . . . . .Set $19 99

(4) Cobra terrorists skim the swamps in this toy-fan-propelled Cobra Water Mocassin. Machine gun on a rotating turret and a surface torpedo. Holds 4 fig. Cobra Swamp Driver included
49 N 59355—Shipping weight 12 ounces . . . . . .Set $9 99

(5) Six of the G I Joe team—Arctic Skier Halo Jumper Tracker Dog handler Jungle Trooper, Heavy Machine Gunner. Weapons included
49 N 59331—Shipping weight 10 ounces . . . . . .Set $19.99

(6) The giant Hovercraft (it's almost 1½ feet long!) glides over land or water. Holds 6 figures, only "Cutter" pilot figure inc
49 N 59363—Shipping weight 2 pounds 3 ounces $24 99

(7) Zartan, Cobra's new spy. He's a master of disguise, changing color to blend with the environment or donning his mask. Comes with Swampsuit (Chameleon) that also changes color
49 N 59322—Shipping weight 7 ounces $5 99

(8) G I Joe diver "Deep Six" has an edge. It's the Flying Sub (S H A R C) that can submerge and surface. Figure inc
49 N 59348—Shipping weight 12 ounces $9 99

(9) Big Foot 8-wheel drive conquers the rough terrain. Plastic. Imported. Uses 2 "C" batteries, sold below
49 N 59324—Shipping weight 1 pound 1 ounce $6 99

(10 and 11) Radio-controlled Military Vehicles made of plastic with realistic metal parts. Use with 3¾-in. plastic figures (not included), like G I Joe. See note on p. 555. For ages 8 years and up.

(10) Tank steers forward, rotates 360° climbs obstacles. Uses two "C" and two 9-volt alkaline batteries, sold below
49 N 54203—Shipping weight 1 pound 8 ounces $24 99

(11) 2-speed Jeep® CJ Military Command Vehicle steers forward, reverse, left, right. Uses two "AA" and two 9-volt batteries, sold below
49 N 54121—Shipping weight 1 pound 2 ounces $19 99

Duracell Alkaline Batteries

Size	Package	Catalog Number	Weight	Pkg price
AA	2	49 N 30908	2 ounces	$1 79
C	2	49 N 30829	5 ounces	2 19
9 v	1	49 N 30949	2 ounces	2 19

(12 thru 20) The adventures of G I Joe continue with these plastic Action Toys, Vehicles, and poseable 3¾-in. Figures. Sets incl all pieces pictured. For ages 5 years and up.

(12) "Ace" is flying high in the SkyStriker XP-14F, ready to parachute to safety from one of 2 removable ejection seats. Figure inc
49 N 59316C—Shipping weight 2 pounds 8 ounces $19 99

(13) "Cobra pilot" is flying the Cobra Rattler and attack at 4 removable rockets, elevating 20 mm cannons. Figure inc
49 N 59359—Shipping weight 3 pounds $12 99

(14) G I Joe Headquarters Command Center has movable surveillance cameras, searchlights, machine guns 36x27 in deep. Fig vehicles not incl
49 N 59320C—Shipping weight 4 pounds 8 ounces $34 99

(15) Night stalking and [illegible] prowls 4WD Stinger across the desert to make a surprise attack. Figure inc
49 N 59333—Shipping weight 8 ounces $9 99

(16) First Sergeant, Flamethrower, and Marine can handle the fight with their two-handed swivel-arm battle grip
49 N 59327—Shipping weight 5 ounces . . . . . .Set $8 99

(17) "Wild Bill" is preparing the Dragonfly XH-1 for take-off. Loaded with missiles and rockets, otor spins. Figure inc
49 N 59318—Shipping weight 2 pounds $12 99

(18) G I Joe better look out for the C O B R A H I S S battle vehicle. Cannons elevate, swivel. C O B R A H I S S driver included
49 N 59312—Shipping weight 8 ounces $9 99

(19) Amphibious Personnel Carrier holds up to 28 fig not incl
49 N 59582—Shipping weight 2 pounds 8 ounces $13 99

(20) "Thunder" waits for them in Slugger, the self-propelled cannon. 30mm machine gun swivels to attack. Figure inc
49 N 59337—Shipping weight 1 pound $9 99

(21) G.I. Joe Walkie/Talkies clip on your belt. Plastic, metal. Set requires two 9-volt alkaline batteries, sold above
49 N 66056—Shipping weight 1 pound 3 ounces . . .Set $14 99

(22) G.I. Joe inflatable vinyl Tent is 44x41x34 inches. Inflatable mattress. Use indoors or out
49 N 47523—Shipping weight 5 pounds $12 88

(23) Fighting Yank™ Action Vehicle Set includes 3 plastic motorized toys. No batteries needed! Just rev up the gyro motor, check the seat belt, push the button, and they're off! Chopper blades rotate. Holds 3¾-inch plastic figures like G.I. Joe and Cobra (figures not included)
49 N 59841—Shipping weight 1 pound 1 ounce . . . .Set $14 99

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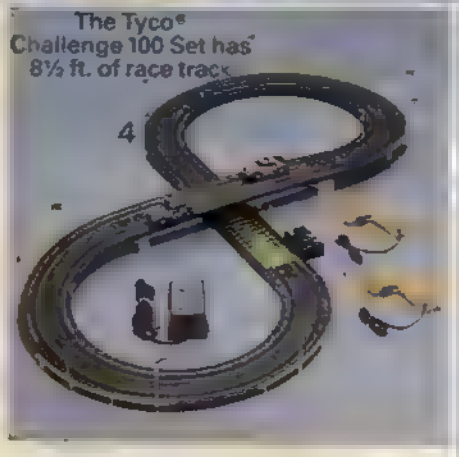
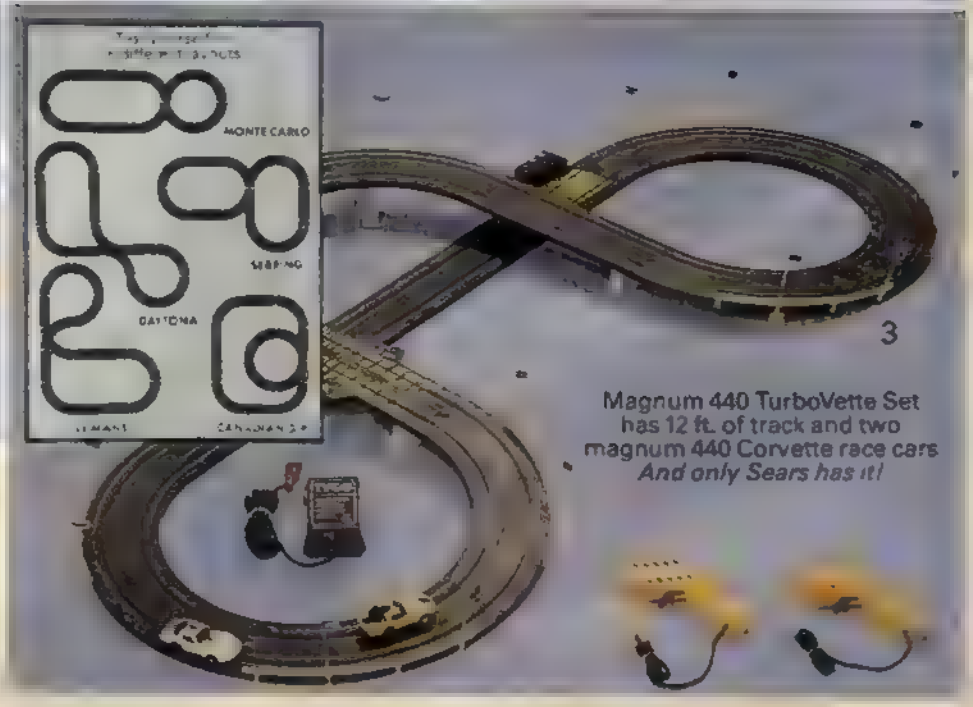
®Jeep registered trademark of Jeep Corp and is used with permission.

TYCO *Slot-Car Race Sets have the action-do you have the skill?*

GT America
2
Includes 27 ft. of track and the same dynamic cars as our biggest set
1
Tyco® Magnum Sets (1) and (2) reach scale speeds up to 1000 mph!
Magnum 440 X2 Grand Prix Championship Set has a super 57 ft. track plus a track and lane change crossover for fast action
High bank curve speeds
Automatic lap counter helps keep score




MONTE CARLO
DAYTONA
3
Magnum 440 TurboVette Set has 12 ft. of track and two magnum 440 Corvette race cars
And only Sears has it!

(1 thru 9) All sets on these 2 pages are made of plastic and metal. Each set includes 2 controllers (except (8), with 1 controller), a UL-listed power pack (120–120-v, 60-Hz AC and 6-ft cord). They're partially assembled with instructions for assembly, use and care. Warranted by Tyco; write for free copy, see page 323. For ages 8 and up (except 5 and 9, for ages 6 and up).

(1 and 2) These Sets feature the Magnum 440-X2 slot cars with ground effects rear magnets and high-adhesion tires for high-speed cornering and handling. Monocoque racing chassis has a low center of gravity and the HT-440 motors with pinion gears deliver unbelievable acceleration and speed. High-bank curve and 10-lap automatic counter.

(1) *Only at Sears!* The Tyco Magnum 440-X2 Grand Prix Championship Slot Car Race Set. The 4x8½-ft track layout has a lane change crossover—beat your opponent to the crossover and avoid a crash! Shpg. wt. 15 lbs.
49 N 97216C $79.99

(2) The Tyco Magnum 440-X2 GT America Championship Slot Car Race Set has a 3x7-ft. track layout. Shipping weight 8 pounds.
49 N 97233C $49.99

(3) *Only at Sears!* The Tyco Magnum 440 Corvette Race Set has a 3x4-ft. layout and counter. Wt. 5 lbs. 3 oz.
49 N 97182 .....$29.99

(4) The Tyco Challenge 100 Slot Car Race Set has a 2x3½-ft. layout, 2 HP7 cars.
49 N 97206—Wt. 5 lbs. $19.99

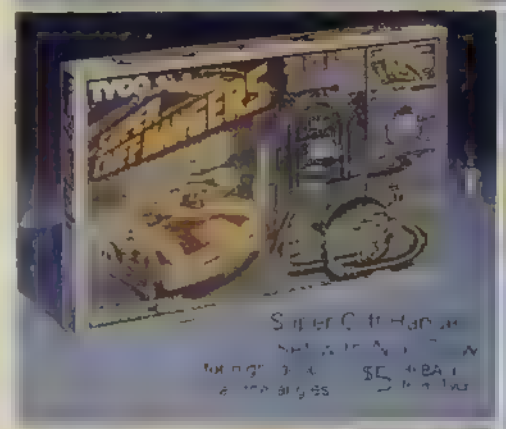
(5) The Tyco US 1 Cross Country Day and Night Electric Trucking Set gives you the feel and excitement of the open road. Includes 9 action features and 3 lighted trucks for 24-hour fun and fantasy. Includes dump truck, tractor engine with working bell, ladder, lights and auto trailer with autos plus 13 sections of track that make 57x70-in. layout. Heard enough? O.K., let's roll! $54.99 after rebate from Tyco, see p. 498 for details. Shpg. wt. 12 lbs. 10 oz.
49 N 95459C. Full price, set $[illegible]

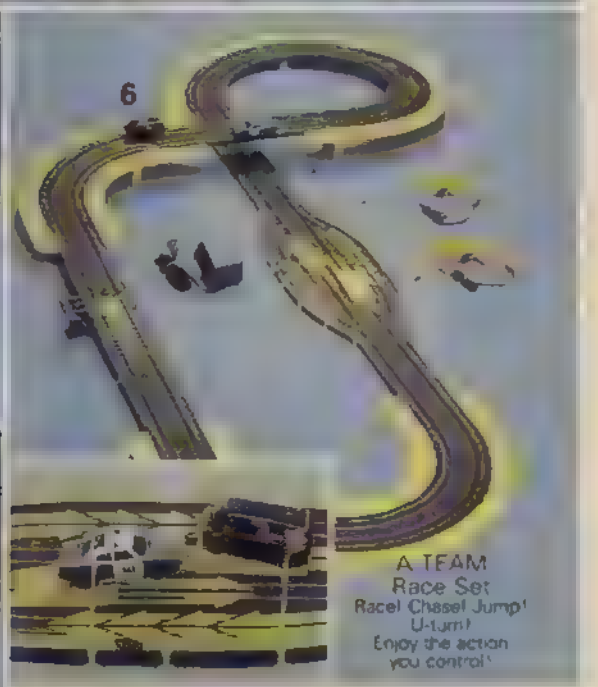
6 The Tyco "A-Team"™ Race Set is ready for high-speed action. Mr. T and his friends are in a bad situation and you've got to help get them out of it! Includes "A-Team" van, MP car that does U-turns, double cross jump and 13 pcs. of track that makes a 3x4½-ft. layout. Shpg. wt. 4 lbs. 4 oz.
49 N 97061C .....Set $42.99
"A-Team" Stephen J. Cannell Productions. TM licensed by MCA, Inc.

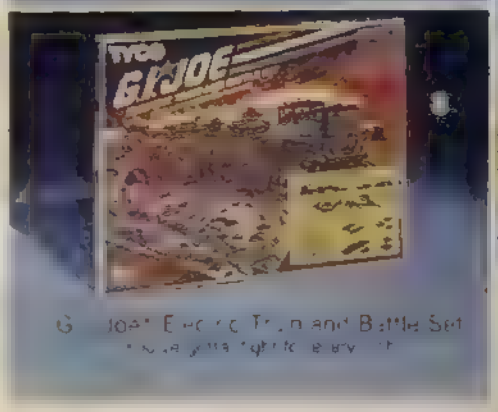
(7) The Tyco Super Cliff Hangers Set includes Nite Glow for an illuminated track. Lets you live at night when it's most precarious. You can even race up walls, upside down and through the loop. It takes nerves of steel—think you can handle it?! Includes 2 magnum 440 Corvettes and 28 track sections that make a 22-ft. layout. $43.99 after rebate from Tyco, see page 498 for details. Shipping weight 8 pounds 8 ounces.
49 N 97194C.. Full price, set $48.99

(8) The Tyco G.I. Joe® Electric Train and Battle Set has you fighting for every inch of land you get. It's a tough mission but you can do it! Set includes 14 track sections that make a 36x45-inch oval layout, 5 car train, plastic army figures and 2 paratroopers. Shipping weight 5 pounds.
49 N 95051C $34.99

(9) The Tyco US 1 G.I. Joe® Electric Trucking Set has 8 action features and YOU control all the fun! That's a lot of power in the palms of your hands but you can handle it! Set includes G.I. Joe mission truck, secret satellite missile helicopter, G.I. Joe and Cobra troops and paratroopers—all on an action battlemat with mountain backdrop. 12 track sections and terminal form an elevated 3x4-ft. layout. Shipping weight 8 pounds 8 ounces.
49 N 95454C.....Set $44.99







U.S. 1 G.I. Joe® Electric Trucking Set
You've gotta be tough to transport the secret satellite missile

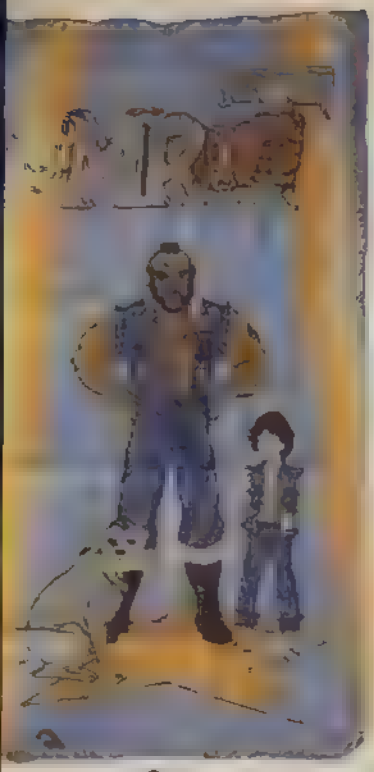
Rest assured!

Slumber Bags starring your favorite hero

WISH BOOK VALUE

Save $6

$19.99 each



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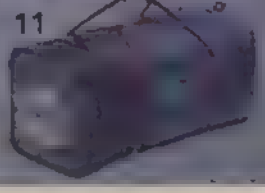

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any 2 or more **$19.99** each

$22.99 each. Our spacious, comfortable Stumber Bag is constructed of heat-sealed polyester for lasting durability. Reinforced to help prevent weight strain and wear, and extra width is provided by the gusseted bottom. Nylon reinforced, full-length zipper. Unzipped bags double as a room bright-ener when not in use. Machine washable. Order from chart at right. Be sure to check out the Hero Stumber Bags on page 464.

Stumber 23™. Keep your overnight accessories handy in a coordinated Stumber Mates™ Duffle. The ideal carry-on case for your new Stumber Bag. Stores water-resistant nylon shell. Unzip-down front lets you access items in the separate, assorted pockets, even with Velcro® closure. Colorful, durable vinyl piping. Tough, cord-reinforced webbed handles. Nylon zippers. Stumber 23 is 20" high. Order the coordinating Stumber Mates™ from our chart to get a perfect match.

	Stumber Bags	Outer Shell	Size (inches)	Stumber Bags	Shipping Weight (pounds)	Item No.	Color Code
1	Superstumber™	Acetate/rayon/nylon	71x35	6 ft. (183cm)	4	3	7 A N 48 F3
2	Stumber™	Polyester	71x35	6 ft. (183cm)	4	8	8 C N 28 H5
3	Stumber™	Polyester	54x35	5 ft. (152cm)	4	18	4 G N 92 K6
4	Mini-Stumber™	Polyester	31x35	3 ft. (91cm)	3	23	4 J N 92 K6
5	Stumber Sleeping Bag	Acetate/rayon/nylon	71x58	6 ft. (183cm)	4	2	7 A N 36 F6
6	Stumber Bunk Bag™	Acetate/nylon	54x58	5 ft. (152cm)	4	14	4 G N 36 K6
7	Stumber Carryall	Acetate/nylon	31x58	3 ft. (91cm)	4	8	4 J N 36 K6
8	Mini-Stumber Party	Acetate/rayon/nylon	31x58	3 ft. (91cm)	2	5	4 J N 36 K6
9	Stumber Mates	Acetate/nylon	31x25	3 ft. (91cm)	4	8	19 C N 48 F3
10	Stumber Mates Suitcase	Acetate/nylon	31x25	3 ft. (91cm)	4	8	19 C N 48 F3
11	Stumber Duffle	Acetate/nylon	31x25	3 ft. (91cm)	3	18	4 G N 92 K6
12	Stumber Tote	Acetate/nylon	31x25	3 ft. (91cm)	2	10	4 J N 92 K6
13	Stumber Cot	Acetate/rayon/nylon	71x32	6 ft. (183cm)	4	8	19 C N 36 F6
14	Stumber Bed Sack	Acetate/nylon	71x32	6 ft. (183cm)	4	8	4 G N 36 K6
15	Stumber Sack	Acetate/nylon	71x32	6 ft. (183cm)	4	8	4 J N 36 K6
16	Stumber Sack	Acetate/rayon/nylon	34x32	3 ft. (91cm)	2	5	4 J N 36 K6

Stumber Bags each $22.99. Any 2 or more pages 462 thru 464 each $19.99
Stumber Mates™—Shipping weight 3 pounds each 9.99

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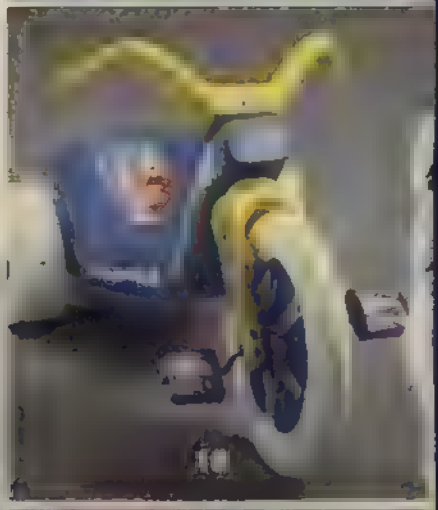

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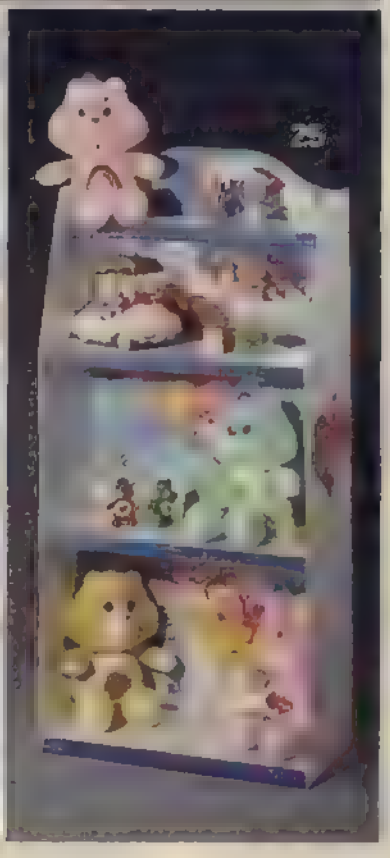

(1 thru 4) Plush, stuffed 13-in. Care Bears™ with heart-shaped padded paws and noses, have adorable little tufts of hair on their heads. Each bear has his own individual symbol of feeling on his tummy. Soft acrylic plush cover is machine washable. For ages 4 years and up.
(1) 49N41078—Love-a-lot Bear™ (3) 49N40975—Cheer Bear™
(2) 49N40787—Bedtime Bear™ (4) 49N41079—Funshine Bear™
Shipping weight 10 ounces $14.99

(5 thru 15) Poseable Care Bears™ and their playthings provide hours of fun for children 3 years and up. Poseable Care Bears™ (6 thru 14) fit perfectly into the Cloudmobile (5) and the Care-a-lot Playset (15).

(5) The Cloudmobile is ideal for taking Care Bears™ on a picnic! It has a front seat and a rumble seat™ ... room for 3 Care Bears™ (not incl.). Picnic basket, blanket, beach umbrella (all incl.). Sturdy, plastic ... 49 N 40781—Shipping weight 1 pound. $10.99

(6 thru 14) Poseable Care Bears™. Each 3½-in. character has movable arms, legs and head.
(6) 49N40781-Goodluck Bear™ (12) 49N40752-Tenderheart Bear™
(7) 49N40991-Baby Tugs Bear™
(8) 49N40987-Baby Hugs Bear™ (13) 49N40759-Funshine Bear™
(9) 49N40806-Cheer Bear™
(10) 49N40753-Love-a-lot Bear™ (14) 49N40757-Bedtime Bear™
(11) 49N40769-Birthday Bear™
Shipping weight 4 ounces $3.99

(15) The Care-a-lot Playset is your Care Bears™ home in the clouds! They can play on the slide, swing on a star, have a birthday party around the table, or hide in the Look-about-Loft. The sturdy plastic playset doubles as a carrying case for 5 Care Bears (not incl.). 13x12 in.
49 N 40763—Shipping weight 2 pounds $19.99

(16) Set of 4 Care Bear Miniatures: Grams Bear™, Baby Hugs™, Baby Tugs™, Cheer Bear™. Each plastic bear is 2 in. tall. For ages 3 yrs. and up.
49 N 52260—Shipping weight 4 ounces ..... Set 8.99

(17 thru 19) Climb aboard for fun with the Care Bears™! Shipped partly assembled, instructions included.

(17) Sit 'n Spin ... just sit, turn the wheel and spin! 16-inch diameter polyurethane foam. For ages 1½ to 5 years.
49 N 47515—Shipping weight 6 pounds 14 ounces $19.97

(18) Pedal away on the Care Bear™ Low Rider! Durable plastic body has a stable design. 33½x21x19½ in. high. For ages 2 to 5 years.
49 N 86003C—Shipping weight 11 pounds $23.88

(19) You can enjoy sliding fun all year 'round with the Care Bears™ slide because it's ideal for use both indoors and out. Wide, gentle-angle ladder and slide, skid-resistant steps. Durable plastic. 44x27x18 in. high. For ages 1½ to 4 years.
49 N 71051C—Shipping weight 11 pounds $33.88

(20 thru 25) Colorful Care Bears™ furniture to brighten bedroom or playroom. Accessories shown not included. (20) and (21) (23 to 25) shipped unassembled. (22) partly assembled, instructions included.

(20) Solid wood Table and Chair Set. White enamel finish. Care Bears™ decorate both the 29½x20½x17¾-in. table and 2 chairs. For ages 3 to 6 years.
49 N 90378C—Shipping weight 27 pounds ..... Set $54.99

(21 thru 25) Constructed of wood, hardboard. For ages 3 yrs. and up.

(21) Bookcase/Toychest is the ideal place to keep books and toys. The bottom sliding doors double as chalkboards! Blue finish, multicolor artwork laminated to back panels. 32x41 in. high.
49 N 90380C—Shipping weight 21 pounds $34.99

(22) Wall Rack with bright multicolor artwork. 2[illegible] in. wide.
49 N 90388C—Shipping weight 2 pounds 3 ounces $6.99

(23) Versatile Activity Desk with plastic bucket seat encourages creative play. Pegboard and magnetic play feature under the flip-top chalkboard. Wipe-off crayons, magnetic alphabet letters, chalk, eraser, mallet, pegs included. Blue finish. 27x18¾x16 in. high.
49 N 90384C—Shipping weight 12 pounds 5 ounces $29.99

(24) Roomy Toy Totер rolls on casters, has metal tubular handles for shipping. Blue finish. 24x16x22½ in. high.
49 N 90382C—Shipping weight 10 pounds ... $19.99

(25) Bookcase/Showcase has a blue [illegible] finish with [illegible] artwork laminated to back panels. 20x9x43 inches high.
49 N 90386C—Shipping weight 13 pounds 8 ounces $24.99
Care Bears® American Greetings Corp. 1983

Rainbow and Ribbon Bear Rocker

You'll love to cuddle up to this Rocker ... its friendly bear face welcomes you. Sturdy stuffed acrylic pile plush body, mounted on curved wooden base. Matching hair bow. 23x16x9 in. tall, an ideal size for youngsters to get on and off of comfortably. Not an official Care Bears™ item. Assembled.
For ages 1 to 3 years.
Shipping weight 5 pounds
49 N 87257C ... $19.99

Care Bears

Let the Care Bears™ brighten your room or go to school with you

(1) Large, 12-quart metal Wastebasket is just the thing to keep your room tidy. Rolled edges. Colorful Care Bears™ design. Measures 13½ inches high.
49 N 92026—Shipping weight 1 pound 8 ounces **$4 99**

(2 thru 4) Items are made of rayon canvas and are silk-screened with Care Bears™ motifs. (2) Red Backpack has a top handle so it can also be used as a school bag. (3) Natural-color Backpack has an outside pocket. (4) Roomy Tote Bag has a snap closure, outside zipper pocket, attached coin purse.

Item	Dimensions (HxW)	Cat. No.	Shpg. wt.	Price
(2) Red Backpack	9¾x7¾ in.	49N9297	1 lb.	$6 99
(3) Natural-color Backpack	12x10½ in.	49N9236	1 lb. 1 oz.	8 99
(4) Tote Bag	12½x11½ in.	49N9235	14 oz.	6 99

(5) It's so much fun to take the Care Bears™ to lunch with this Plastic Lunch Kit. It comes with an 8-oz. wide-mouth break-resistant vacuum bottle. Kit is 8⅛x3¾x7½ in. high.
49 N 92027—Shipping weight 1 pound 4 ounces **$6 99**

(6 thru 9) Even if it's cold or gloomy outdoors you can make it a Care Bears™ day! These wonderful toys encourage hours of constructive and creative play for those days when you have to stay indoors, great for sunny days, too.

(6) This colorful Figurine Paint Set includes three 4¾-inch white molded-vinyl figurines just waiting for your artistic touch. Four fast-drying acrylic paints, a brush, instructions.
For ages 6 years to adult.
49 N 19369—Shipping weight 1 lb. 7 oz. .....Set **$8 99**

(7) Curl up with this set of four colorfully-illustrated and easy-to-read Mini Books including "Meet the Care Bears", "Care Bears Garden", "Care Bears and the New Baby" and "Care Bears Help Out". For ages 5 years to adult.
49 N 16960—Shipping weight 10 ounces ....Set **$4 95**

(8) Create your own bright, sun-catching companions with the Make and Bake™ Care Bears Four-pack. Kit includes 4 lovable Care Bears (Tenderheart Bear, Baby Hugs, Baby Tugs, Bedtime Bear), suction cups, 16 bags of colorful plastic crystals, instructions. For ages 8 years to adult.
49 N 19382—Shipping weight 13 ounces .....Kit **$7 99**

(9) Make a Care Bear™ Kit lets you make two precious little favorites. This yarn sewing activity features Tenderheart Bear and Happy Birthday Bear (each 4 in. tall). Kit incl. plastic safety needle, yarn and plastic grids.
For ages 8 yrs. to adult.
49 N 19397—Shipping weight 14 ounces .....Kit **$8 99**
Care Bears ®American Greetings Corp. 1982, 1983, 1984

Ventriloquist Dolls

(10 thru 19) All dolls have durable vinyl heads and soft vinyl hands. Realistically-painted faces. Simon Sez (17) has a trigger mechanism in back to open his mouth and a rotating handle to turn his head; each of the others has a string in back to open mouth and heads turn manually. Soft poseable bodies, all filled with a synthetic material except Suzie Sez (15) and Tessie Talks (18). Each doll comes with a ventriloquist's instruction booklet.
For ages 4 years to adult.

(10 and 11) 24-in. tall Laurel and Hardy Dolls.
10) 49 N 36009—Oliver Hardy
11) 49 N 36007—Stan Laurel
Shipping weight 2 pounds 4 ounces .....Each **$19 99**

(12) With his sweatsuit and baseball cap, Willie Talk is ready to provide hours of fun! 23 in. tall.
49 N 36005—Shipping weight 1 lb. 4 oz. **$19 99**

(13) Here's Charlie McCarthy, Edgar Bergen's sidekick. This authentic reproduction even includes the famous top hat and monocle! Measures 30 inches tall.
49 N 36013—Shipping weight 3 lbs. 3 oz. . **$24 99**

(14) Howdy Doody, that familiar freckle-faced cowboy, talks to you on a 33⅓-rpm record (incl.). 24 inches tall.
49 N 34178—Shipping weight 2 lbs. 3 oz. . **$18 99**

(15) Pretty little Suzie Sez has an all-cloth body with floppy legs. Her wide-brimmed straw hat ties with a ribbon. 19 in. tall.
49 N 34173—Shipping weight 1 lb. 8 oz. **$14 99**

(16) Bozo the Clown talks to you on a 33⅓-rpm record (incl.) and has bright red yarn hair. Measures 30 in. tall.
49 N 36028—Shipping weight 3 lbs. 2 oz. **$24.99**

(17) Simon Sez has soft poseable arms and legs. Measures 30 in. tall.
49 N 36263—Shipping weight 1 lb. 14 oz. **$21 99**

(18) Freckle-faced Tessie Talks has poseable arms and legs and rooted hair. Measures 8 inches tall.
49 N 36015—Shipping weight 1 lb. 8 oz. **$18 99**

(19) Lester, ventriloquist Willie Tyler's pal, speaks on a 33⅓-rpm record (incl.). Rooted hair and glasses. 26 in. tall.
49 N 36062—Shipping weight 2 lbs. 6 oz. **$21 99**

STATE TROOPER
PP 930
1
2
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5

Battery-powered Cruisers

Move up from pedal power and enjoy battery-powered riding fun! These vehicles can cruise for hrs. on a single charge. Each has battery recharger (UL-listed for 110–120-v., 60Hz AC) with 5½-ft. cord. Partly assembled. Have instructions (see "N" note p. 323).

(1) Cruise the sidewalks in the Street Trooper Bike and help enforce the speed limit. Authentic-looking helmet and flashing turn signals, to the detailed saddle, speedometer and plastic fairing. Twist-the-handgrip throttle to rev up the dual motors. Plastic windshield. Top speed 6 mph. Plastic wind-shielded, chrome-plated headlight. Chrome-plated tubular steel frame. Sprung, adjustable shock in front fork. Removable training wheels. Steel kickstand. Vinyl tires. Rear wheel drive. 42½x20½x34½ in. 18-in. high seat. Requires two 6-volt batteries (not included; we recommend heavy-duty battery, 49N86597C, sold below). For ages 5 to 12 years.
49N86597C—Shipping weight 27 lbs. $129.99

(2) Highway Patrol helmet. Full-face flip-up visor. Adjustable chin strap. Padded with polyethylene-covered foam padding (not for use as protective headgear). For ages 2 to 6 years.
49N86529—Shipping weight 1 lb 4 oz. $10.99

(3) Hit the sidewalks in this stylish 2-seat Sports Coupe and take a friend along. Hood doors open. Under-hood, glove box storage space. Flip-up fuel cap. Rear-wheel handbrake. Goes forward, reverse and has 3 speeds. Two electric motors. Polyethylene plastic body. Wheels are steel-reinforced plastic axles. 41½x23½x24½ in. 12-in. high seat. Requires one 6-volt battery, we recommend heavy-duty, battery 49N86597C, sold below. For ages 3 to 7 years.
49N86592N—Shipping weight 41 lbs. $159.99

(4 and 5) Ready for a new set of wheels? Choose the Classic Convertible or Ford Pick-up Truck. Both go about 2½ mph in forward or reverse. Foot-operated on/off switches. Polypropylene plastic body. Each requires one 6-volt battery, not included. For ages 3 to 7 years.

(4) Your favorite rides in this 2-seat Classic Convertible. Removable seat. Instrument panel with steering wheel. Top opens. Hood opens to reveal simulated engine. Chrome-plated wheels. 41½x23½x24½ in. 8-in. high seat.
49N86539N—Shipping weight 23 lbs. $99.99

(5) Got cargo to haul? This Ford Pick-up Truck is for you! Accessories include a padded roll bar, snap-on grille, simulated CB radio and antenna. Tailgate drops. Hood opens to reveal a simulated engine. 41½x19½x21½ in. 10½-in. high seat.
49N86534C—Shipping weight 23 lbs. $79.99

(6) The farmer in the dell never had it so good! That's because he or she can own this Pines 6000 Farm Master Dual Motor Tractor. Realistic tractor goes forward, reverse up to 2½ mph. Powered by a 6-volt motor. Polypropylene plastic body, wear-resistant wheels, steel axles, steering mechanism. Push-button horn. Trailer of plastic with steel frame. Flaps to drop load. Toys not included. 41½x19½x21½ in. 10½-in. high. Requires one 6-volt battery, not included; we recommend heavy-duty, 49N86597C, sold below. For ages 3 to 7 years.
49N86534C—Shipping weight 23 lbs. $89.99

(7) Experience 4-wheel drive adventure on the Probe 4 All-Terrain Vehicle. It travels over rough, uneven surfaces and steep hills with ease. Four wheels are powered by 2 heavy-duty, 6-volt motors. Wide profile tires for stability. High, low speed ranges with maximum speed of 4 mph. Directional control lever for forward/reverse, steering control. Polypropylene plastic body. Steel frame. Front bumper and roll bar. 34½x24½x22½ in. 2-in. high seat. Requires two 6-volt batteries, not included; we recommend heavy-duty, 6-volt battery, 49N86597C, sold below. For ages 5 to 12 years.
49N86544N—Shipping weight 50 lbs. $139.99

$99.99 (8) Carry the best Big Wheel set! Rail road express with 4 cars, 2 tracks with 6 curves, train set, engineer, conductor and 2 passengers. Goes up to 2½ mph. Engages forward, reverse and neutral. Heavy-duty. Hopper, tanker cars have steel axles, hook together with steel coupling. Locomotive and tender made of durable 32x18.6x18 in. ABS plastic. Engineer's seat. Gondola is 14½x8½x7½ in. high. Caboose is 4½x8½x15 in. high. Parts assembled. Track sections not included. Requires one 6-volt battery, not included; we recommend heavy-duty, 6-volt battery, 49N86597C, sold below. For ages 2 to 6 years.
49N86582N—Shipping weight 37 lbs. $99.99

(9 and 10) Track Sets for train (8) above. Snap-together track sections are easily assembled, instructions for various layouts.

(9) 17-pc. Track for 170x74-in. figure-8 or 124x74-in. oval layouts.
49N86577C—Shipping weight 25 lbs. $49.99

(10) 12-pc. Track. Can build 124x74-in. wide oval layout.
49N86579C—Shipping weight 17 lbs. $39.99

(A and B) Rechargers UL-listed, 110–120-v., 60Hz AC 5½-ft. cord.

(A) 6-volt Recharger. Use with batteries for Pines most Little Tikes 3 and 4 wheeled battery-operated vehicles, except those requiring two 6-volt batteries.
49N86524—Shipping weight 11 oz. $6.99

(B) 12-volt Recharger. Use with batteries for Pines 2-wheeled motorcycles, All-Terrain Cycles (ATV), Radar and Trail Blazer.
49N86526—Shipping weight 1 lb. $9.99

(C and D) 6-volt Rechargeable Batteries for Sears Eldon, Pines most Little Tikes vehicles, Hedstrom Power Pedal™ and Kid Tech.

(C) 2-amp Heavy-duty Battery. 49N86525—Wt. 5 lbs. $19.99

(D) 9-amp Standard Battery. 49N86522—Wt. 4 lbs. $14.99

When you can't get home for Christmas, send Christmas home with Ship-a-Gift. see p. 326

Don't be caught powerless on Christmas Day. order these Rechargeable 6-v. Batteries and replacement Rechargers

Battery-powered 3-wheelers

Ra der 2-speed
ATV Cycle
Save $10
thru Feo 15th

2

4

1

Be ready on Christmas day, order the required 6-volt battery(s) sold on page 551

1 and 2 3-wheelin' fun and excitement is yours with these ATV Cycles! Choose 1- or 2-speed model. Twist the throttle and hear the engine roar. Each includes a foot-operated on/off switch, simulated headlight and mock dash instruments. Extra-large, wear-resistant knobby tires for sure grip on most surfaces. Chrome-plated handlebars, decorative rollbars. Tough molded polypropylene frame, seat, wheels and other parts. 15-in. seat height. Battery recharger (not incl.) is UL listed for 110 to 120 volts, 60-Hz, AC with 5½-ft. cord. Batteries not included (order on p. 551). Partly assembled; instructions, hdwe. incl.

552–553 M/E $_{52}$

1) *Only at Sears!* The RoadHander® ATV, our new 3-wheeler with the good and famous name. 1-speed cycle travels up to 3 mph (recommended for use on paved surfaces only). Requires one 6-volt battery, (not incl.), sold on p. 551. 34x22x21 in. high overall.

For ages 3 to 7 years.

49 N 86584C—Shpg. wt. 22 lbs. $69.99

(2) The de-luxe Raider 2-speed ATV Cycle switches from 2½ to 6 mph. Two motors and two-wheel-drive means it keeps goin' on paved or unpaved surfaces. Power-lock™ brakes. Molded windshield. Requires two 6-volt batteries, not included; we recommend 49 N 86565, sold on page 551. 37x23x29 in. high overall.

For ages 4 to 7 years. Shpg. wt. 26 lbs.

49 N 86536C—Thru 2/15/85 .....$79.99

Regular price after 2/15/85 ..... 89.99

(3 and 4) These Three-wheeled Fun Cycles reach approximate maximum speeds of 2½ mph; ideal for the beginning biker. On/off foot pedal switch. Sturdy welded tubular steel frames. Polypropylene plastic seat, tires and other parts. Cycles measure 34½x15½x21½-inch high overall. 14-inch high seats. Battery recharger (included) is UL listed for 110-120 volts, 60-Hz, AC with 5½-foot cord. Partly assembled; instructions, hardware included. Each requires one 6-volt battery, not included (sold on page 551).

For ages 3 to 7 years.

(3) Traffic Patrol® Cycle. Simulated red lights, emergency radio, microphone, antenna. Beep at those errant cars with a real working horn. Storage pouch, glove compartment.

Shpg. wt. 18 lbs.

49 N 86508C ..... [redacted]

(4) Rainbow Cycle. Has working horn. Simulated radio, microphone, antenna. Carry along favorite items in storage pouch behind seat.

Shpg. wt. 18 lbs.

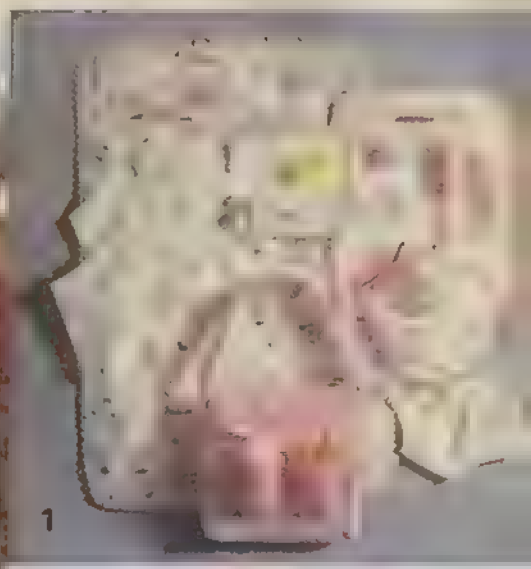
49 N 86502C ..... [redacted]

When you can't go home for Christmas, send Christmas home with Ship-A-Gift — see page 3c6

Cabbage Patch Kids

Harvest of

© 1983 Cabbage Patch Kids™ items for 1984 are trademarks licensed exclusively to Appalachian Artworks, Inc., Newnan, Georgia U.S.A. All Rights Reserved



adorable adoptables

Once upon a time
not too long ago,
Colonel Casey the stork,
swooped down into the
enchanted Cabbage Patch
with a large bundle in his beak
"I've brought more,"
he said, "for you to
adopt and adore

Cabbage Patch Kids™

Yes, those cuddly little tykes are back and are even more adorable than ever before! They have sweet expressive faces, an abundance of yarn hair, little pudgy hands and feet, dimpled knees and elbows and the cutest little belly button. But what makes them even more special for 1984 is the differently colored birthmark on each tiny "tush". This new batch of Kids™ is so unique, chances are you'll never see one just like yours. We'll select the outfit and hair style to surprise you. Each is sent to his or her "adoptive parent" with a birth certificate, adoption papers and a special personality profile. 16 inches tall. Imported.

IMPORTANT: Remember, you can't specify a particular hair style or outfit when you order a Cabbage Patch Kid™. Let us surprise you with a "Kid"™ so adorably unique, it may be one of a kind! Please note, however, that only a limited number of "Kids"™ are available for adoption before Christmas. Please order early to avoid disappointment.

For ages 4 years and up.

T 49 N 31542—Girl, white with light hair
T 49 N 31503—Girl, white with dark hair
T 49 N 31505—Girl, black with dark hair
T 49 N 31506—Boy, white with light hair or maybe no hair at all!
T 49 N 31508—Boy, black with dark hair or maybe no hair at all!

Shipping weight each 1 lb. Each $26.99

(11 thru 12) Doll Clothes with Accessories. Fit dolls from 16 to 18 in. tall. Dolls not incl.

Item	Wardrobe Type	Catalog Number	Wt. lbs.	Wt. oz.	Price
1	4 pc. Layette for Boy or Girl Dolls	49N31942		5	$9.99
[illegible]	4 pc. Layette	49N31[illegible]		5	9.99
[illegible]	4 pc. Boys'	49N31[illegible]		7	9.99
[illegible]	3 pc. Activewear	49N31[illegible]		9	9.99
[illegible]	Dress	49N31[illegible]	1		9.99
[illegible]	Overalls	49N31[illegible]	1		9.99
[illegible]	Poseable Outfit	49N31[illegible]		8	9.99
8	Poseable Outfit	49N31[illegible]		8	9.99
9	Cheerleader	49N31[illegible]		8	13.99
[illegible]	Fireman	49N31[illegible]		8	13.99
[illegible]	Cowgirl	49N31[illegible]	1	6	13.99
(12)	Cowboy	49N31[illegible]	1	8	13.99

Cabbage Patch Kids™ Preemies™

Preemies™ have just arrived! Born during an early frost in the Cabbage Patch™, these precious Preemies™ are just waiting to be adopted and loved. These adorable infants range in age from newborn to 6 months. Some have a tuft or two of hair, but most have none at all. They have all the same huggable features as the older "Kids"™ above, including that cute baby birthmark on each tiny "tush". Let us select a special one with a special outfit to surprise you. Each comes with its own birth certificate and adoption papers. 14 in. tall. Imported.

IMPORTANT: Remember, you can't specify a particular outfit when you order a Cabbage Patch Kids™ Preemie™. Let us surprise you with a Preemie™ so adorably unique, it may be one of a kind! Please note, however, that only a limited number of Preemies™ are available for adoption before Christmas. Please order early to avoid disappointment.

For ages 3 years and up. Wt. 1 lb. 4 oz.

T 49 N 31767—Girl, white $26.99
T 49 N 31791—Girl, black 26.99
T 49 N 31735—Boy, white 26.99
T 49 N 31772—Boy, black 26.99

(13 thru 16) Doll Clothes with Accessories.* Fit baby dolls to 14 in. tall. Dolls not incl.

Item	Wardrobe Type	Catalog Number	Wt. lbs.	Wt. oz.	Price
[illegible]	[illegible]	49N[illegible]	[illegible]	4 oz.	$9.99
[illegible]	4 pc. [illegible]	49N[illegible]	[illegible]	4 oz.	9.99
[illegible]	5 pc. [illegible]	49N[illegible]	[illegible]	4 oz.	9.99
[illegible]	[illegible]	49N31[illegible]	[illegible]	3 oz.	9.99

*Colors and fabrics may vary.

Items with a "T" prefix (such as T 49 N 31542) could take extra time for delivery.

(thru 18) Cabbage Patch™ Accessories and Dolls. For ages 3 years and up (except (10), for ages 6 years and up)

(1) This handy Sling Carrier keeps your dolly snuggly-close when you're on the go. Washable cotton and polyester.
49 N 31807—Shpg. wt. 8 oz. $5 99

(2) The Cabbage Patch Kids™ Soft Travel Bag lets you keep your "Kids"™ clothes and accessories at hand while traveling. Hanger loop under top flap. 2 outside pockets. Quilted cotton and polyester fabric.
49 N 31886—Shpg. wt. 8 oz. $11 99

(3) Swing your dolly to the holding of a soothing melody in this Cabbage Patch Kids™ Musical Swing. A turn of the handle and a little push starts the swinging action. Plastic seat with safety strap, metal frame.
49 N 31892—Shpg. wt. 6 lbs. $19 99

(4) The Cabbage Patch Kids™ Table Mate is a versatile 3-in-1 playtime seat for your "Kid"™. Fits on table edge, can be used as a booster seat or stand alone as play seat. Plastic with metal bracket, snap on/off tray, vinyl seat pad.
49 N 31818—Wt. 3 lbs. 10 oz. $14 99

(5) Cabbage Patch Kids™ 3-position Rocker/Carrier has adjustable handle that changes plastic rocker to carrier or baby seat. Vinyl seat cushion and safety strap.
49 N 31813—Wt. 1 lb. 5 oz. $14 99

(6) Take your dolly everywhere in this quilted Doll Carrier. Soft polyester and cotton with lace-trimmed hood. Washable.
49 N 31805—Shpg. wt. 10 oz. $7 99

(7) Zippered Slumber Bag will be a smash hit at your dolly's next slumber party. Washable quilted cotton.
49 N 31801—Shpg. wt. 8 oz. $5 99

(8) Cabbage Patch Kids™ 25 pc. Deluxe Baby Care Set includes everything an adoptive parent should need, incl. play hot plate, bottle warmer, baby potty and more.
49 N 31809—Shpg. wt. 1 lb. $11 99

(9) Record the events in your dolly's development with this Cabbage Patch Kids™ Baby Book. 16 pages, many styles of vinyl stickers.
49 N 51554—Wt. 1 lb. 4 oz. $8 99

(10) Cabbage Patch Kids™ Activity Set. Includes desk-top pencil holder and notebook, wall calendar, picture frames, 4 ft. chart, 6 markers and frame for your Cabbage Patch Kids™ adoption certificate.
49 N 20359—Wt. 1 lb. 8 oz. $9 99

(11) Collectible Cabbage Patch Kids™ Crawling Babies are full of action. Wind them up and watch them go! 2 crawling babies, 1 walker. Injection-molded plastic.
49 N 51814—Shpg. wt. 6 oz. $8 99

(12) What's that mysterious bundle in the Cabbage Patch? They're not Kids™ at all! They're Koosas™ and they're ready to be adopted just like the Cabbage Patch Kids™. These cuddly critters are 18" pchum-a with adorable face, rooted hair and soft jersey bodies. They have dimpled knees and elbows, a belly button and even a tail. Includes collar, identification tag with space for name and registration papers.
You can't specify a particular Koosas™ color or outfit when ordering. Let us surprise you with one so unique, it may be one of a kind. See important note below.
T 49 N 31775—Wt. 1 lb. 10 oz. $24 99

(13 thru 18) Cabbage Patch Kids™ Pin-ups are adorable miniatures of the big Kids™. They have soft, sculptured bodies and rooted yarn hair. Each comes with "hug" or "their own soft accessory and special scene with a fabric-covered frame. You can stand frame up or hang on wall. Doll and accessory fasten to scene with Velcro® closure. Collect one, collect them all! See important note below.
13) T49N31384-Helen Mona in Bedroom
14) T49N31385-Charleen Mona in Clubhouse
15) T49N31377-Candi Buffy in Sweet Shop
16) T49N31815-Susie Jilly in Toy Store
17) T49N31248-Mimi Cassie in the Garden Greenhouse
18) T49N31516-Sister Patsy in Barnyard
Shipping weight 10 oz. $9 99

IMPORTANT NOTE: Only a limited number of "Koosas™ and "Pin-ups™ are available before Christmas. Please order early to avoid disappointment. Items with a "T" prefix (such as T 49 N 31775) could take extra time for delivery.

Atari® 2600 and Coleco Gemini™

Two great names play the same games, at prices you can't resist

1 and 2 You can choose your action from the world's largest cartridge library, with the Atari® 2600 or the Coleco Gemini™. Each has easy-access console expert game select and reset switches. Uses 110-120v 60 Hz AC. Warranted by manufacturer; write for free copy, see page 323.

$59.99 (1) Coleco Gemini™ Video Game Console includes two all-in-one controllers plus Donkey Kong™ and a bonus cartridge. Measures 11x6¾ inches.
49 N 75020—Wt. 5 lbs. 4 oz. $59.99

$44.99 (2) Atari® 2600 Video Game Console with 2 joysticks plus a game cartridge. 13¾x9⅛ in.
49 N 75017—Shpg. wt. 6 lbs. 5 oz. $44.99

Set of 2 Arcade Spheres for original equipment joysticks (not shown).
49 N 75461—Shpg. wt. 3 oz. ..... Set $3.99

Replacement accessories for both the Atari® 2600 and the Coleco Gemini™ (not shown).
49 N 75455—AC Power Adapter. Shpg. wt. 9 oz. $6.99
49 N 75475—Cable-Ready TV Switch. Wt. 4 oz. . 4.99

(3 thru 5) Controls for both Atari® 2600 and Coleco Gemini™ video game consoles. Warranted by manufacturers; write for free copy, see page 323.

(3) Stik Stik™ by Suncom. Rounded base corners for comfort. One fire button.
49 N 76405—Shipping weight 5 oz. . . . $7.99

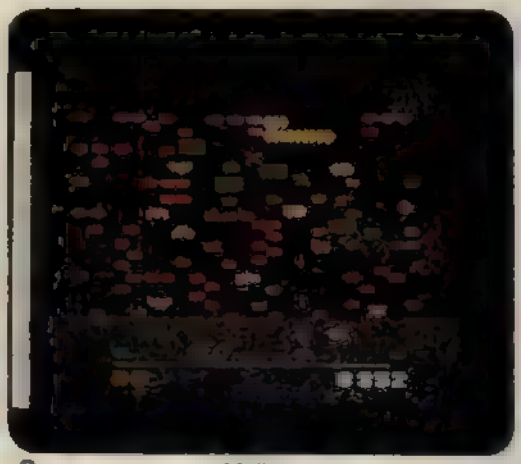
(4) Command-Control Joystick by Wico has blade switches for incredible durability. Two fire buttons, 1 on handle, 1 on base. $18.99 after rebate — see p. 498 for details. Rebate expires 9/30/84. Offer void where prohibited. Shpg. wt. 1 lb. 6 oz.
49 N 75430 . . . Fully priced $23.99

(5) Tac-2 Joystick by Suncom has durable ball and contact construction for control you can see and feel. Two fire buttons. Free-standing.
49 N 75407—Shipping weight 10 oz. . . $12.99

(6) Controller Extension Cable (not shown).
49 N 76460—Shipping weight 3 oz. $4.99

Games people play... on the Atari 2600 and Coleco Gemini

1 Donkey Kong Jr.

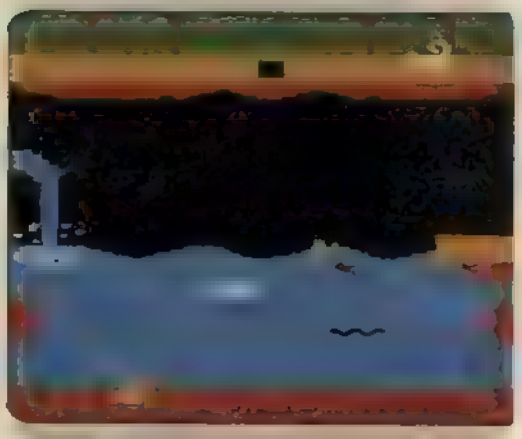


2 Millipede

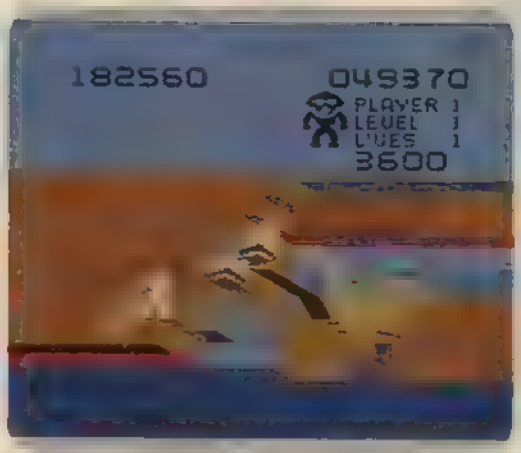
13 H.E.R.O.

12 Ms. Pac-Man

11 Mario Brothers

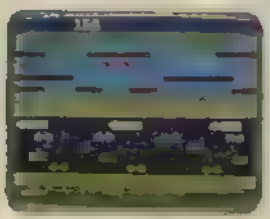


3 Pitfall II



4 Congo Bongo

10 Mr. Do's Castle



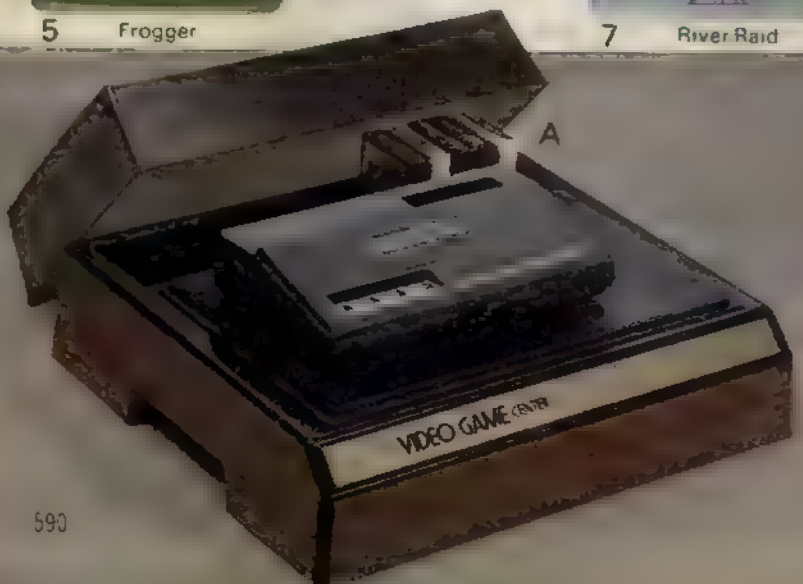
5 Frogger

6 Pitfall

7 River Raid

8 Enduro

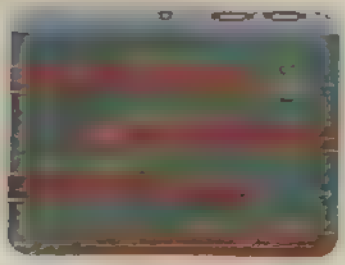
9 Space Shuttle



WISH BOOK VALUE Cut $5

Storage Systems

[illegible] Storage System holds all video game systems [illegible] and Odyssey. Attractive smoked cover [illegible] its game chassis from dust [illegible] $19.99



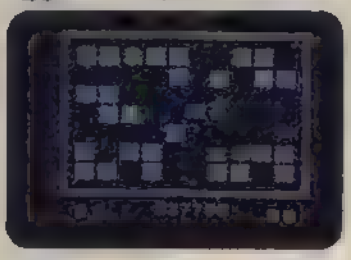
14 Tapper

19 Montezuma's Revenge

15 Frogger II

20 Gyruss

16 Dig Dug



21 Pengo

17 Q*bert

22 Star Wars the Arcade

18 Centipede

23 Popeye

1 thru 23) Cartridges warranted by manufacturer. Write for free Warranty copy; see page 323. $10 rebate from Parker Bros. on Cartridges (5), (10), (15), (17), (18), (20), (22) and (23). Expires 1/31/85. See p. 498. Shipping weight 4 ounces each.

Cartridges and description	Catalog Number	Price after rebate	Our Price
(1) Donkey Kong Jr.™ by Coleco. Perform difficult feats to get keys and rescue Papa from Mario. 1 player.	49 N 75558	.....	$14.99
(2) Millipede™ by Atari. Deluxe version of Centipede features eight different swarming insects. 1 player	49 N 75195	.....	34.99
(3) Pitfall II™ by Activision. Avoid pitfalls of the lost caverns. 8 screens and 27 levels deep. 1 player.....	49 N 75077	.....	29.99
(4) Congo Bongo™ by Sega. Escape the jungle maze with charging rhinos, snakes and a mischievous gorilla. 1 player	49 N 75251	.....	29.99
(5) Frogger™ by Parker Bros. Guide your frantic frog thru traffic and across a raging river. 1 or 2 players	49 N 75502	$4.99	14.99
(6) Pitfall!™ by Activision. Swing over deadly pits to stay alive. 1 player	49 N 75086	.....	27.99
(7) River Raid™ by Activision. Destroy enemy bridges and fuel dumps. 1 player	49 N 75068	.....	27.99
(8) Enduro™ by Activision. Test your skill and endurance as you drive day or night thru fog or rain. 1 player	49 N 75074	.....	27.99
(9) Space Shuttle™ by Activision. Guide Columbia safely through Kolish maneuvers back to earth. 1 player.....	49 N 75079	.....	29.99
(10) Mr. Do's Castle™ by Parker. Help Mr. Do rid his castle of pesty unicorns and get keys to escape hatch. 1 player ...	49 N 75528	22.99	32.99
(11) Mario Brothers™ by Atari. Donkey Kong's Mario is at it again ..chasing that crazy gorilla. This time he has his brother with to join in the fun. 1 player	49 N 75197	.....	34.99
(12) Ms. Pac-Man™ by Atari. Guide Ms. [illegible] thru 4 different mazes before she is destroyed. 1 player.....	49 N 75179	.....	34.99
(13) H.E.R.O.™ by Activision. Rescue miners trapped in a maze of mine tunnels with special equipment. 1 player.	49 N 75078	.....	29.99
(14) Tapper™ by Sega. Catch the customers' glasses before they fall on the floor. 1 player	49 N 75252	.....	29.99
(15) Frogger II™ by Parker. 3 new fields to challenge Mr. Frogger. Deadly eels, alligators and currents. 1 or 2 players.	49 N 75525	24.99	34.99
(16) Dig Dug™ by Atari. Miner tries to find treasure by tunneling underneath boulders and around bad guys. 1 player.....	49 N 75172	.....	34.99
(17) Q*bert™ by Parker. Quickly bounce from cube to cube avoiding a cast of characters driving you crazy. 1 or 2 players	49 N 75520	9.99	19.99
(18) Centipede™ by Atari. Attack the creepy crawly and it divides ... each section coming after you! 1 player ...	49 N 75169	.....	34.99
(19) Montezuma's Revenge™ by Parker. Locate the treasure hidden in the palace. Go thru 24 gem filled rooms before you can enter the treasure chamber. 1 player.....	49 N 75526	22.99	32.99
(20) Gyruss™ by Parker. Journey to Neptune, recovering planets and enemy battleships on the way. 1 or 2 players	49 N 75523	22.99	[illegible]
(21) Pengo™ by Atari. Fight [illegible] on a battlefield of ice blocks. Pengo crushes or freezes. 1 player.	48 N 75196		34.99
(22) Star Wars® the Arcade™. Hit the mark and vaporize the Death Star. 1 player	48 N 75624	24.99	34.99
(23) Popeye® by Parker. Help Popeye as he battles Brutus in classic cartoon strip style with spinach. 1 player	48 N 75621	[illegible]	19.99

*TM of Lucasfilm Inc.

(B) 14-cartridge Cabinet. Holds video game cartridges and instruction manuals for Atari 2600, Coleco Gemini, and other video systems only. Plastic with woodgrain finish. Measures 9¾x11¾ inches high overall. Was $9.99 in our 1983 Wish Book, page [illegible].

48 N 75486—Shipping weight 1 lb. 5 oz. $7.99

(C) 16 or 24-Cartridge Stacker. Holds 24 Atari 2600, Intellivision, Odyssey, ColecoVision cartridges or 16 Atari 5200 cartridges by [illegible] with instruction booklet compartments. Plastic with woodgrain finish. Measures 13¾x3½x9½ inches high overall.

48 N 75482—Shipping weight 2 lbs. 9 oz. $12.99

(D) Handsome Hassock holds all systems except the Atari 5200 and Odyssey. Removable tray holds cassettes, accessories and booklets, bottom holds up to 60 cartridges. Particleboard covered with woodgrain vinyl. Top is padded with polyurethane foam and covered with vinyl. Measures 17¾x17¾x17 inches high overall. Sent assembled; just attach casters. Deluxe barrel casters and instruction included. Was $49.99 in our 1983 Wish Book, page 601.

48 N 75497C—Shipping weight 30 lbs. $34.99

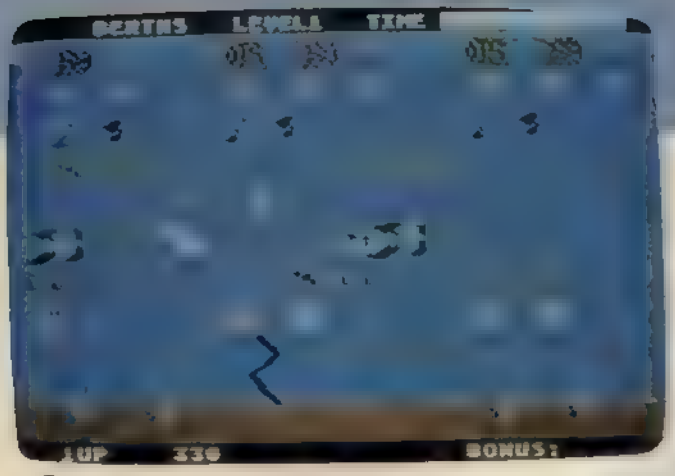
(B) Cut $2 WISH BOOK VALUE (D) Cut $15

The Atari 5200 Video Game Console

With all the power of a home computer, built right in! 16K RAM (Random Access Memory) recreates all the frantic fun of the arcades . . . generates more colors, sharper resolution *PLUS* bigger blasts, bangs and booms than the Atari 2600 mode

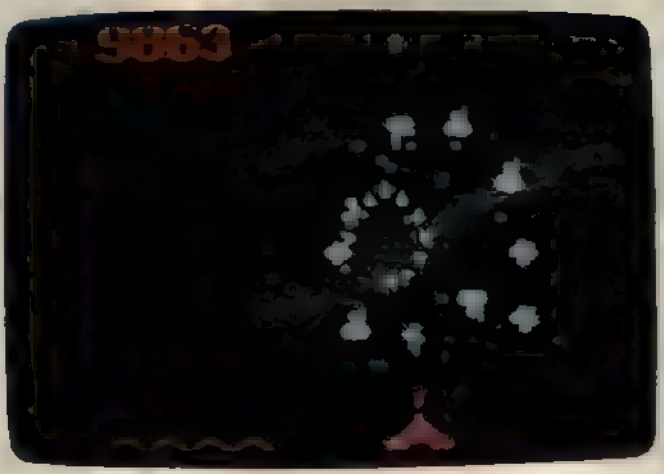
Cut $70

1

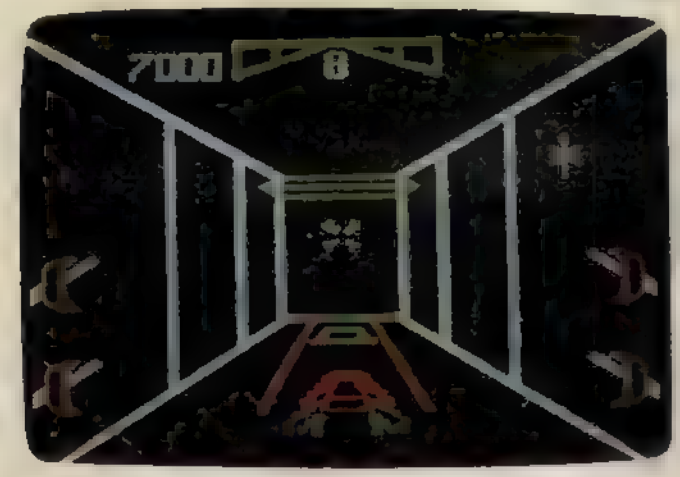


2 Frogger II

Cartridges 2 [illegible]
$10 REBATE
from Parker Bros



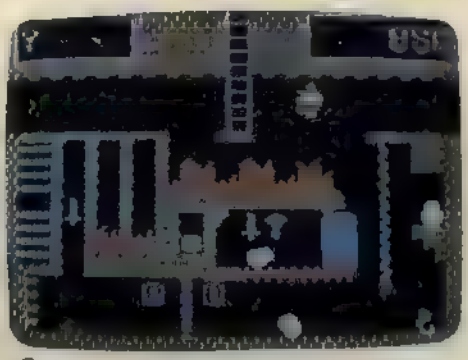
4 Gyruss



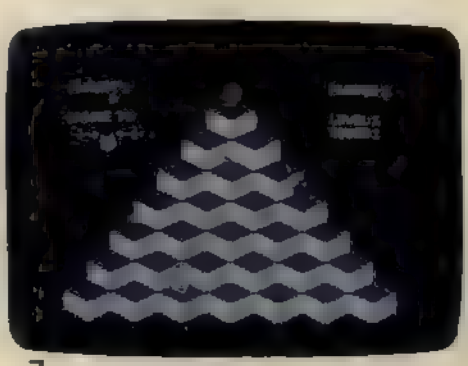
3 Star Wars the Arcade

Cartridges (2 thru 8)
$10 REBATE
from Parker Bros

5 Mr. Do's Castle



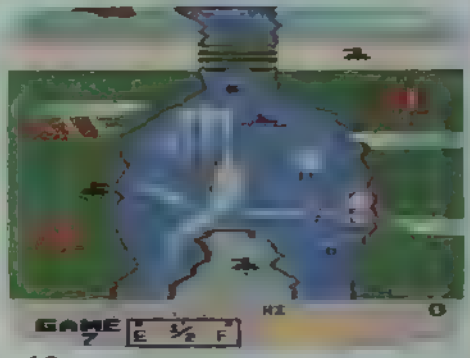
6 Montezuma's Revenge



7 Q*bert

8 Popeye

9 Pitfall



10 River Raid

11 H.E.R.O.

12 Congo Bongo

(1) Premium technology is yours with the Atari 5200 Super System . . . the standard of excellence in home video game units. After you play it just once, you'll realize how differently it performs. Just imagine, the power of a home computer generating arcade-like images, sounds and action. You'll enjoy its precision handling, too. Just touch your controller and your move is carried out almost instantly. Plus, when you remove cartridges from the receptacle, there's silence and the screen goes black—no irritating static or rasping. Storage is easy, as the controllers fit neatly under cover at rear, and cord wraps around base. Sleek-design controllers have twin fire buttons for left- and right-handed players. Includes a game cartridge. Was $149.99 in our 1984 Spring Big Book, page 929.
Shipping weight: 12 pounds
49 N 75852 ..... $79.99

AC Adapter for Atari 5200 (not shown).
Shipping weight: 2 lbs. 8 oz.
49 N 75890 ..... $14.99

ITEM (1) AVAILABLE THRU DECEMBER 31, 1984 ONLY

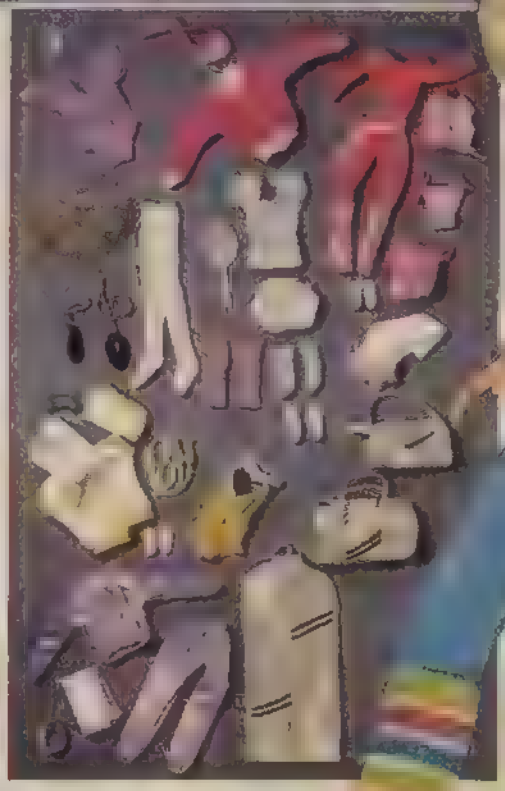
(2 thru 12) These Video Game Cartridges for the Atari 5200 system progress in difficulty as your skills improve . . . provide increasingly greater challenges. And, most are new-at Sears this year. All cartridges are warranted by manufacturer. Write for free copy—see p. 323. Order games below. Cartridges (2 thru 8) include $10 rebate offer from Parker Brothers (offer good thru January 31, 1985 only—see page 498 for details).

Cartridge and description	Catalog No.	Price after rebate	Full Price
(2) Frogger™ by Parker Bros. Under or above water, then into the air, can you survive these new challenges on your way to frog heaven?	49 N 75995	$27.99	$37.99
(3) Star Wars® the Arcade by parker Bros. Fight off hordes of imperial Fighters™ ordered by the evil Empire's Death Star with the well-placed laser blast—at the Force, be with you.	49 N 75959	27.99	37.99
(4) Gyruss™ by Parker Bros. On a journey back to Earth, you must conquer planets and face attacks by waves of enemy [illegible]	49 N 75958	24.99	34.99
(5) Mr. Do's Castle™ by Parker Bros. Mr. Do must set traps, use sliding ladders and get keys to escape mutant unicorns.	49 N 75998	24.99	34.99
(6) Montezuma's Revenge™ by Parker Bros. Explore 100 treasure-filled rooms while protecting yourself from ghosts, moving floors and other doom.	49 N 75996	24.99	34.99
(7) Q*bert™ by Parker. Q*bert has to change all cube tops the same color before he's caught.	49 N 75956	9.99	19.99
(8) Popeye™ by Parker Bros. Reach the stomach to KO Bluto and save sweet Olive Oyl.	49 N 75957	9.99	19.99
(9) Pitfall™ by Activision. Search for hidden treasure while battling [illegible] predators.	49 N 75981	[illegible]	19.99
(10) River Raid by Activision. Destroy enemy bridges and fuel dumps.	49 N 75989	[illegible]	19.99
(11) H.E.R.O. by Activision. Rescue miners using your helicopter pack, dynamite and laser helmet.	49 N 75982	[illegible]	19.99
(12) Congo Bongo™ by Sega. Safari adventure crossing a piranha-filled lake, climbing sheer cliffs and watching for man-eating animals.	49 N 75962	[illegible]	32.99

$29.99 Adjustable joystick for the Atari 5200 attaches to your regular controller for keypad functions. Features free-floating or self-centering handle options, 6 inches high, 4-inch plastic base. Warranted by Wico. Write for free copy, see page 323
49 N 75464—Wt. 1 lb. 5 oz. $29.99

You're cordially invited
to join
Barbie's
SILVER
CELEBRATION
4
CORVETTE
CORVETTE
5

Step into Barbie's world...starting with these exciting new dolls



It's a celebration! There's lots of excitement in Barbie's world especially with these new poseable vinyl dolls. Barbie Dolls are 11½ in. tall. Ken is 12 in. tall. For ages 3 years and up.

(1) Crystal Barbie® is ultra-glamorous in her dazzling ball gown, change-around stole and sparkling shoes. Incl. comb, brush and a sparkly child-size necklace. Wt. 10 oz.
49 N 30022—Crystal Barbie ..... Alone $9.99
49 N 30272—Black Crystal Barbie ... Alone 9.99
Price when you also buy Wardrobe (3) ... 7.99

(2) Crystal Ken® is the perfect escort for Barbie in his white tux and shiny vest.
49 N 30023—Shpg. wt. 10 oz. ... Alone $9.99
Price when you also buy Wardrobe (4) 7.99

(3) 35-piece Silver Dream Wardrobe ... an elegant ensemble for your 11½-in. doll.
49 N 31352—Shpg. wt. 5 oz. $9.99

(4) 30-pc. Active Wardrobe suits 12-in. dolls for all occasions.
49 N 31358—Shpg. wt. 5 oz. $8.99

(5) 11½-in. dolls cruise in style in this 18-in. Silver Corvette. Plastic. Doll not inc.
49 N 31363—Shpg. wt. 1 lb. 10 oz. $4.99

(6) Loving You Barbie® with gown, include stationary, a stamp and stickers. $7.99 after $1 Mattel rebate, see p. 498.
49 N 30120—Wt. 10 oz. ... Full price alone $8.99
Full price when you also buy Item (7) 8.99

(7) 40-pc. Wedding Wardrobe for 11½-in. dolls incl. gown, lingerie and travelling clothes.
49 N 31349—Shpg. wt. 5 oz. $9.99

(8) Great Shape Barbie® is fit, trim and terrific. Make her do sit-ups and eg. its.
49 N 30040—Wt. 5 oz. ... Alone $6.99
Price when you also buy Wardrobe (9) ... 4.99

(9) 43-pc. Aerobic Wardrobe for 11½-in. dolls.
49 N 31355—Shpg. wt. 5 oz. $8.99

Lindsey™ and Sister Dolls plus Outfits, or Craig™ Doll plus Outfits . . . your choice $8.99

1 Lindsey™ and her little sister are the best of friends who share everything . . . from barrettes for their long silky hair to a telephone! 58 pc. wardrobe includes 5 complete outfits . . . 3 for Lindsey and 2 for the sister. Includes shoes and shoulder bag for shopping plus sneakers and rackets for tennis. You also get accessories like a camera, radio, ping pong paddles and glasses. Lindsey is a 11½" fashion doll with bendable arms, legs, bendable knees, waist, twisting walk and turning head. Imported. Little sister is 9" vinyl doll with poseable arms and legs. See more fashions p. 443

For ages 4 to 10 years. Not recommended for children under 3 due to small parts.

49 N 30010 Wt. 5 lbs. **Set $8.99**

2 Craig™ Lindsey's handsome beau is ready for the weekend. His 29 pc. wardrobe comes with 3 outfits, including a cowboy sweater and corduroy pants, a jogging suit, plus swim gear with snorkel mask and fins for underwater exploring. Extra gear includes a guitar, camera, golf clubs, his own personal stereo, hairbrush and a towel. 12" fashion doll has poseable arms, legs, bendable knees, twisting waist and turning head. Imported. See more fashions p. 443

For ages 4 to 10 years. Not recommended for children under 3 due to small parts.

49 N 30285—Wt. 1 lb. . . . . **Set $8.99**

Spend a day at the Shopping Mall

Start with a little lunch on the mezzanine, then take the escalator up to the second floor fashion boutique for serious shopping or just browsing. Later, stop by the ice cream cart for a snack. 36"x17"x31" high. For 11½" dolls (not included). Adult assembly required. Instructions included. 29 piece set. Imported.

For ages 4 years and up.

49 N 31345—Wt. 4 lbs. . . . **$24.99**

You're cordially invited to join

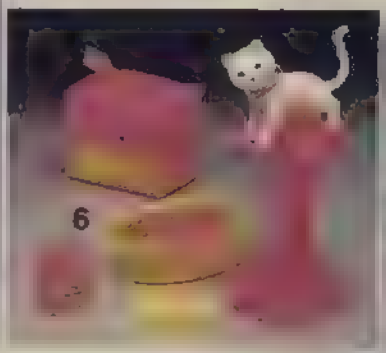
Barbie's®

SILVER

CELEBRATION

Home is where the heart is

Barbie's® Dream House $5 REBATE from Mattel



(1 thru 9) Items (1) and (5) warranted by Mattel. Write for free copy, see p. 323. Dolls not included with items (1), (5), (9). For ages 3 years and up

(1) Barbie's® Dream House contains 6 picture perfect rooms filled with furniture. Doors and windows really open! Brightly colored heavy-duty plastic. 4x3-ft. high house opens into 3 sections. Requires adult assembly; instr. incl. Designed for 11½-in. dolls (not incl.) See "N" suffix note, p. 323. $89.99 after $5 Mattel rebate. See p. 498 for details. Wt. 40 lbs.
49 N 31102N .....Full price $94.99

(2) My First Barbie® ... the easy-to-dress fashion doll for the younger child. Vinyl with movable arms and legs. Comes with comb, brush, extra skirt and top.
49 N 30083—Wt. 7 oz. $7.99

(3) Happy Birthday Barbie® ... the perfect gift for any girl. Make party decorations or play games from the "Happy Birthday" instruction book.
49 N 30025—Wt. 8 oz. $8.99

(4) Deluxe Sports Car rides on friction power. Built of rugged plastic, bucket seats. Fits two 11½-in. dolls (not incl.)
49 N 30196—Wt. 2 lbs. 1 oz. ...$9.99

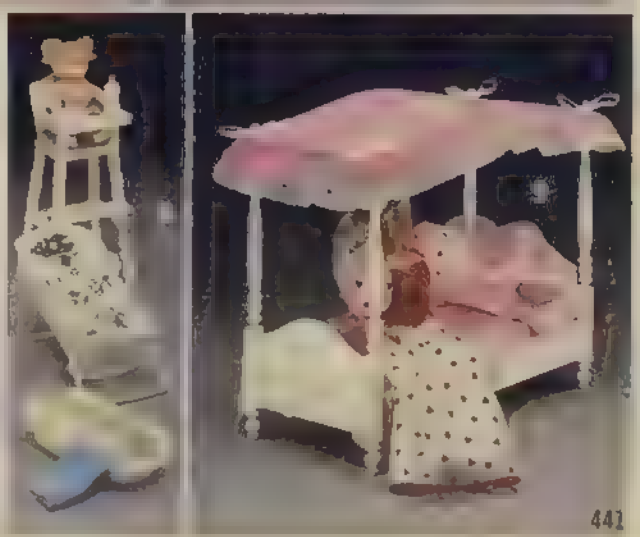
(5) Barbie® Dream Cottage expands to a 2-story, 6-room structure with realistic furniture. Plastic. 22x39x9½ in. high. Requires adult assembly; instructions included.
49 N 30216C—Wt. 3 lbs. $64.99

(6) Fluff . . . Barbie's® 'purr-fect' pet. Includes plastic pet care accessories and carrying case. Flocked kitten.
49 N 31366—Wt. 1 lb. $7.99

(7) Barbie® Wicker-look Furniture. convertible furniture with reversible cushions. Includes tea set, diary and antique telephone. Plastic.
49 N 31375—Wt. 1 lb. 8 oz. $19.99

(8) Baby and Nursery Set make "baby sitting" easy. Includes high chair, cradle, tub, towel, dish and bottle.
49 N 31041—Wt. 6 oz. $4.99

(9) Barbie's® Dream Bed. Ribbons, heart-shaped pillows and a canopy make it oh so inviting. Includes cut-out accessories.
49 N 30208—Wt. 2 lbs. $11.99



Loads of clothes for

Barbie, Lindsey and friends

for 3 Girl Dolls Clothes fit 11½" female dolls except 19" Jessica, 18" Kelly and 16" Skipper dolls) Boy Doll Clothes fit 12" Ken and 14" Todd male dolls Color may vary from outfits shown Imported Dolls not included

Save $3

Any 2 or more $6.49 ea.

Luxurious fabrics, delicate lace trim special attention to even the smallest details That's what makes our finest Fashion Sets a must to own

(1) 32-pc Deluxe Home Wardrobe Whether she's leading the parade or at the family BBQ, it's a weekend to remember
49 N 31298—Wt 4 oz Ea $7.99, 2 or more ea $6.49

(2) 38-pc Masquerade Party An ever-changing set of costumes
49 N 31327—Wt 5 oz ..Ea $7.99, 2 or more ea $6.49

3 29-pc Winter Wardrobe When the winter storm comes
49 N 31348—Wt oz Ea $7.99 2 or more ea $6.49

4 48-pc Mix 'n Match Wardrobe He's ready for adventure
49 N 31323—Wt oz Ea $7.99 2 or more ea $6.49

(5) 28-pc Chic Fashions 3 trendy outfits that are sure to
49 N 31238—Wt oz Ea $7.99 2 or more ea $6.49

Save $2

Any 2 or more $4.99 ea.

Our Deluxe Fashion Sets are made from

(6) 25-pc Pajama Party Cozy nightwear plus a record
49 N 31294—Wt 2 oz Ea $5.99, 2 or more ea $4.99

(7) 27-pc Deluxe Evening wear Everything for a night on the town, from a gorgeous gown to sparkly shoes
49 N 31233—Wt 3 oz ..Ea $5.99, 2 or more ea $4.99

(8) 29-pc Deluxe Male Sportswear Just the right equipment for the super jock or the amateur sportsman
49 N 31296—Wt 5 oz ..Ea $5.99, 2 or more ea $4.99

9 31-pc Deluxe Wardrobe
49 N 31237—Wt 2 oz Ea $5.99 2 or more ea $4.99

10 23-pc Deluxe Bridal Wardrobe A dreamy gown veil and bouquet for
49 N 31232—Wt 3 oz ea $5.99 2 or more ea $4.99

(11) 31-pc Christmas Set Deck the
49 N 31293—Wt 4 oz..Ea $5.99, 2 or more ea $4.99

(12) 34-pc Active Life Ski the slopes, rush the tennis net
49 N 31234—Wt 4 oz. Ea $5.99, 2 or more ea $4.99

(13) 20-pc Winter Pastels Bundle her up in softly colored furry fashions for cold winter days
49 N 31235—Wt 2 oz ea $5.99 2 or more ea $4.99

Save $1

Any 2 or more $3.49 ea.

These Fashion Favorites have decorative accents and

(14) 15-pc Groom Set He and his bride will live happily ever after Includes classic tuxedo casual and tennis wear
49 N 31226—Wt 5 oz. Ea $3.99 2 or more ea $3.49

(15) 17-pc Wedding and Honeymoon Set A beautiful wedding gown for the big day Plus, outfits for sightseeing and fun in the sun on the honeymoon
49 N 31225—Wt 2 oz ..Ea $3.99 2 or more ea $3.49

(16) 20-pc Wardrobe Set A pretty
49 N 31230—Wt 2 oz.. Ea $3.99 2 or more ea $3.49

(17) 21-pc School Spirit Wardrobe
49 N 31229—Wt 3 oz ..Ea $3.99, 2 or more ea $3.49

(18) 20-pc Mix 'n Match Set Cool coordinates that create many fashionable looks
49 N 31228—Wt 2 oz ..Ea $3.99, 2 or more ea $3.49

(19) 18-pc Western Wardrobe Coordinates for ridin' or lookin' for her beau at the square dance
49 N 31227—Wt 2 oz ..Ea $3.99 2 or more ea $3.49

Here comes the Bride...and Groom

WISH BOOK VALUE 2

(1) Traditional Bride and Groom Set features a lovely bride ready for the most romantic day of all. Includes a beautiful 11½-in. bride wearing a lace trimmed gown and her handsome 12-in. groom dressed in a classic black tuxedo. Also includes a wedding cake (not shown) of plastic. For ages 3 and up.
49 N 30116—Shpg wt 1 lb . . . . . Set $9 99

(2) The Wedding Day Play Set includes all the necessary ingredients for the big day. A striking white bride (gown not shown) for 11½-in. dolls. Groom's ensemble, a bunner white picket fence, bride's gazebo, table and cake for a perfectly delicious day. For ages 3 and up.
49N31342-Wt 1 lb 10 oz. . Set alone $11 99
Save $2 when you also buy Bride and Groom Set 1) with Wedding Day Set (2 . . . Set $9 99

(3) The Great Outdoors Recreation Set provides the perfect get-away for your 11½-in. fashion dolls. 24-pc. set incl. everything for a day of sunny fun like a wind-surfer, hanglider and grill. There's even a swim suit and hat for Ken. For ages 4 yrs. and up.
49 N 302 5—Shpg wt 1 lb 8 oz $9 99

(4) Fashion dolls can throw a splash party with the 60 pc. barbecue and pool Set. Comes complete with vinyl pool that holds water, backyard patio table with benches and umbrella, barbecue with chimney, dressing cabana and lots more accessories. For ages 3 years and up.
49 N 31341—Shpg wt 3 lbs . . . . . Set $14 99

(5 thru 8) Sun Gold Ken® and Barbie® dolls are ready for pool and sun with shiny metallic 1-piece swimsuits, 3 pairs of sunglasses. Ken doll comes with towel. Barbie comes with tote bag that opens into a beach mat. All have bendable legs and movable arms. Barbie® has twisting waist. For ages 3 yrs. and up.
5) 49N30039 12-in. Black Ken. Wt. 13 oz. **$4 99**
6) 49N30036 12-in. Ken. Wt. 13 oz. **4 99**
7) 49N30037 11½-in. Barbie. Wt. 8 oz. **4 99**

(8) Fashion dolls can keep in shape with this 27-piece Workout Set. Inc. exercise cycle, trampoline, dumbbells, jump rope and jogging machine. There's even a scale to see positive results. Also, mini-backpack, roller blades, leg warmers, headband and sneakers and warm-up suit for 11½-in. dolls (dolls not inc.). Easy assembly. For ages 3 yrs. up.
49 N 31043—Shpg wt. 1 lb 6 oz. . . . . Set $9 99

(9) Aerobics Doll comes wearing 2-piece leotard. Athletic bag carries headband, leg warmers and exercise book. Poseable bending knees, ankles and free-moving hip joint. 11½-in. vinyl doll. For ages 3 yrs. and up.
49 N 31022—Shipping weight 6 oz. **$4 99**

(10) Great Shape Ken® comes dressed in sweat pants and T-shirt with blue, yellow striped accents. Inc. tennis shoes and gym bag. For ages 3 years and up.
49 N 30063—Shipping weight 13 oz. **$6 99**

(11) Sun Gold Skipper® comes ready for summer with a swimsuit, 3 pairs of sunglasses and tote. Vinyl doll has bendable legs, movable arms, twisting waist.
49 N 31025—Ages 3 and up. Shpg wt. 6 oz. **$4 99**

$9 99 (12) Your fashion dolls can relax in the whirlpool action of this Hot Tub. Depress knob and release for an invigorating bath. Inc. swimsuit, coverup, towel and radio. Doll not inc. For ages 4 years and up.
49 N 31220—Shpg wt. 1 lb 10 oz. . . . . Set $9 99

(13) Barbie® Bubbling Spa makes real stir bubbles and bubbling sounds with pump. Dolls not inc. Warranty Mattel. For free booklet see p. 122. For ages 3 yrs. and up.
49 N 31373—Shpg wt 3 lbs . . . . . Set $14 99

Places to go...things to do

You're cordially invited to join

Barbie's® SILVER CELEBRATION

(11) Snack Shack — the perfect place for hungry dogs. Includes fast-food counter, food and cash register with pop-out cash drawer and a dispenser that really pumps cards. Plus place table with comfy chairs. For 8½ to 11" fashion dolls and pets. Ages 3 years and up.
49 N 10834—Shpg. wt. 6 lbs. 9 oz. **$9.99**

(12) Motor Scooter — lets your 11½" doll tour the town in style on powered motor scooter. Plastic. Imported.
49 N 31094—Ages 4 yrs. and up. Wt. 14 oz. **$7.99**

(13) Remote-control ATV Cycle — you control the action as your 11½" doll rides the wheels goes forward, reverse. Remote control unit and cord uses 3 C batteries (not incl.; see p. 555). Plastic and metal. Ages 4 yrs. and up.
49 N 54213—Shpg. wt. 1 lb. 8 oz. **$9.99**

(14) Barbie® Star Traveler™ Motor Home with a [illegible] that has its own ears and a CB radio. [illegible] Ages 3 years and up. Wt. 11 lbs.
49 N 30150—Ages 3 years and up. Wt. 11 lbs. **$39.99**

(15) Barbie® Loves McDonaldland™ — goes at the [illegible] Order new pretend cookies and fries at the [illegible] 42 plastic play pieces. 11½x4x14 in. high. Doll not incl. For ages 3 yrs. and up.
49 N 11[illegible]—Shpg. wt. 4 lbs. 2 oz. **$24.99**

(16) 3-Story Townhouse for 4-in. dolls. 6 furnished rooms, sundeck and working elevator. 28½x8x[illegible] high. Desk, sofa, Jacuzzi®-style tub, [illegible] For ages 3 yrs. and up.
49 N 02240—Shpg. wt. 4 lbs. 8 oz. **$24.99**

(17) The Actresses — 3 beautiful 4-in. dolls. Movable arms and legs. Plastic. Ages 4 and up.
49 N 41284—Shpg. wt. 4 oz. 3-doll Set **$3.99**

(18) Ruffle Fashion Purse for 4-in. dolls has a storage pocket. Vinyl. 4x19 in. Imported. Ages 3 years and up. Does not include doll.
49 N 02231—Shpg. wt. 1 lb. 2 oz. **$2.99**

(19) Dream Horse Prancer™ — Barbie's beautiful Arabian stallion. Comes with pretty pink saddle, bridle and comb. For 11½-in. dolls not incl.
49 N 11398—Ages 3 years and up. Wt. 1 lb. 4 oz. **$11.99**

(20) Brandy — Lindsey's blue ribbon show horse. Comes with saddle, bridle, blanket, reins and brush. Pose head and legs. For 11½-in. dolls not incl.
44 N 31116—Ages 4 years and up. Wt. 1 lb. 12 oz. **$7.99**

(21) Sweet Roses™ Pink Doll — rose-scented and pretty as a bouquet in her gown and [illegible] Includes comb and brush. Passage [illegible]
44 N 40268—Ages 4 yrs. and up. Wt. 9 oz. **$9.99**

(22) [illegible] 15 — Carrying cases for 11½-in. dolls. Wardrobe with [illegible] 14 and 15 have [illegible] hangers, drawer and storage for doll's [illegible] and accessories. [illegible]
For ages 4 to 12 years.

(23) 2-Door Bedroom Case with fold-out twin beds. 17¾x14x[illegible] high.
49 N [illegible]—Shpg. wt. 4 lbs. 12 oz. **$8.99**

(24) [illegible] Carry-all. 28x2[illegible] long.
49 N 2[illegible]—Shpg. wt. [illegible] **$4.99**

(25) Single-Door Case. [illegible]x24¾x13[illegible] high.
49 N 3[illegible]—Shpg. wt. [illegible] **$4.99**

(26) Double Case. [illegible]x14x1[illegible] high.
49 N 40229—Shpg. wt. [illegible] **$7.99**

[illegible] 22 — 11½-in. vinyl dolls (19, 20, 21) [illegible] Payments 7 (19, 20, 21 are plastic). For ages 3 years and up.

(27) Pink & Pretty Barbie® Doll has a 6-pc. costume she can wear over [illegible] different ways; 6 pc. jewelry, comb, brush, perfume bottle and [illegible]
44 N 40154—Shpg. wt. 9 oz. **$9.99**

(28) Fashion Boutique — let your doll's browse dress displays [illegible] accessories, 40-pc. set [illegible] mirror, dressing [illegible] swimsuit.
49 N 40[illegible]—Shpg. wt. [illegible] **$9.99**

(29) Angel Face™ Barbie® Doll is a dreamy doll with her very own make-up [illegible] Case includes eye-shadows, blusher, applicators and hair accessories.
49 N [illegible]—Shpg. wt. [illegible] **$9.99**

(30) Barbie® Dream Store Fashion Department has 3 [illegible] dresses, jewelry and accessories.
49 N [illegible]—Shpg. wt. [illegible] **$19.99**

(31) Dream Date™ Barbie® Doll is breathtaking for [illegible] gown she can wear many ways; has jewelry, mirror, perfume bottle, comb, brush.
49 N 40059—Shpg. wt. 1 lb. 4 oz. **$9.99**

(32) Barbie® Beauty Salon lets you create your doll's [illegible] hair, includes [illegible] vanity, [illegible] curler wands and hair accessories.
49 N 41[illegible]—Shpg. wt. [illegible] **$ 7.99**

(33) Teddy Bear® Barbie® comes with her own hair styling [illegible] and hair accessories.
[illegible] **$10.99**
49 N [illegible]—Wt. [illegible] **10.99**
49 N [illegible]—Wt. [illegible] **10.99**

*Angel Face™ is a registered trademark of Fashion Boutique is used with permission.

†Worn by Barbie® — see page 323

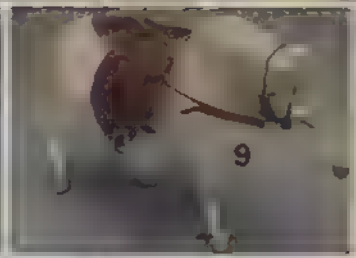
Breyer Horses... collectible playmates

WISH BOOK VALUE

Save $2

5

7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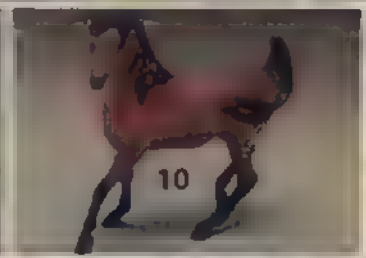
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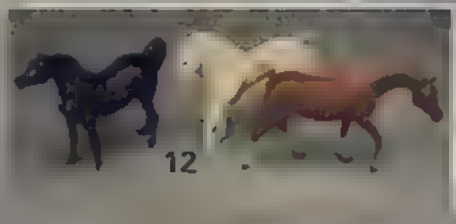
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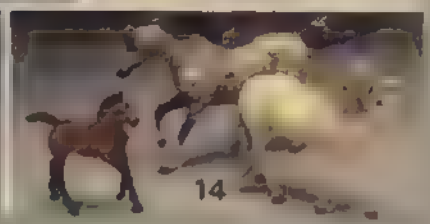
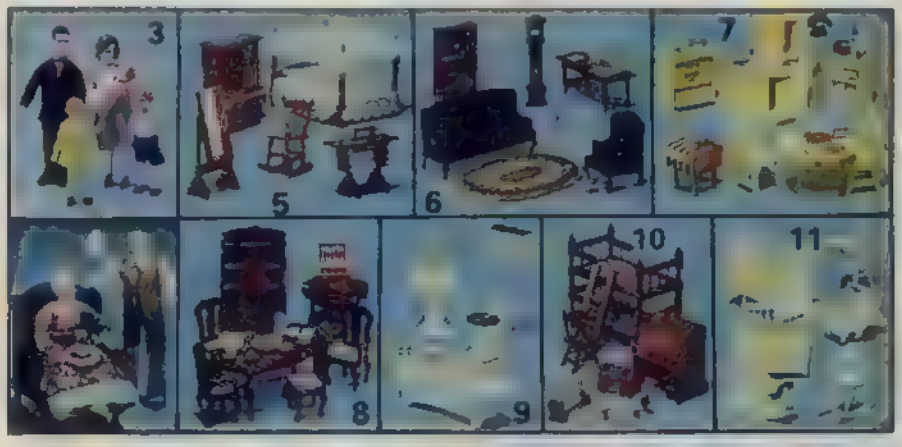

14

WISH BOOK VALUE

Save $5

on Colonial-style Dollhouse (1) when you also buy Turntable (2)



Create a dream house

(1) Colonial-style Dollhouse has 8 rooms. Made of pre-cut wood, hardboard, plastic, plywood staircase, plastic windows, plastic door with frame. Laminated art on exterior, do-it-yourself interior. Plastic chimney. 41x16¾x26 in. high. Scale: 1 inch=1 foot. Hardware and assembly instructions included.

For ages 3 and up.*

49 N 14251C—Shpg. wt. 34 lbs. ..Dollhouse alone $44.99
Dollhouse (1) when you also buy Turntable (2)..... 39.99

(2) Dollhouse Turntable. Made of hardboard. rotates on metal ball bearings. 20x14x1¼ in. high.

49 N 14262C—Shpg. wt. 5 lbs. 2 oz.....$5.99

(3 and 4) Doll Families have poseable, non-toxic plastic bodies and are fully costumed. Fit in House (1). Sets include all the items shown. Imported.

For ages 3 and up.*

(3) 49 N 1412—The Brown Family. Shpg. wt. 2 oz. ..$4.99
(4) 49 N 14127—Grand Parents. Shpg. wt. 2 oz. 3.99

(5 thru 11) Room Settings include all items shown.

For ages 3 and up.*

Description	Catalog No.	Shpg. wt.	Price
(5) Bedroom Set.....	49 N 14818	14 oz.	$9.99
(6) Living Room Set.....	49 N 14141	1 lb. 2 oz.	16.99
(7) Kitchen Set.....	49 N 14135	12 oz.	12.99
(8) Dining Room Set.....	49 N 14137	1 lb.	15.99
(9) Bathroom Set	49 N 14301	9 oz.	3.99
(10) Child's Bedroom Set	49 N 14139	15 oz.	8.99
(11) Nursery Room Set.....	49 N 14133	12 oz.	9.99

WISH BOOK VALUE

Save $5

when you buy House (12) and Furniture Kit (13)

(12) 8-room Deluxe Victorian-style Dream Dollhouse Kit lets you build your own dollhouse. The 3-story house has front and side porches, a chimney, dormers, a staircase with railing, room dividers, exterior window trim and silk-screen printed frost-etched glass-like vinyl window. Pre-printed roof shingles give a natural appearance. 28x19x27½ in. high. The pre-cut plywood tab-and-slot doll house assembles without tools, nails or screws, just use glue (not included) and follow the by-the-numbers, illustrated instructions (included). Imported.

For ages 14 and up.*

49 N 14144C—Shpg. wt. 16 lbs. .....Kit $29.99

(13) 26-piece Deluxe Dollhouse Furniture Kit. enough to furnish an 8-room doll house. Pre-cut and printed plywood. Upholstery fabric, foam, sandpaper, non-toxic paint, brush and illustrated assembly instructions included. Glue is needed (not included). Scale: 1 inch=1 foot. Imported.

For ages 14 and up.*

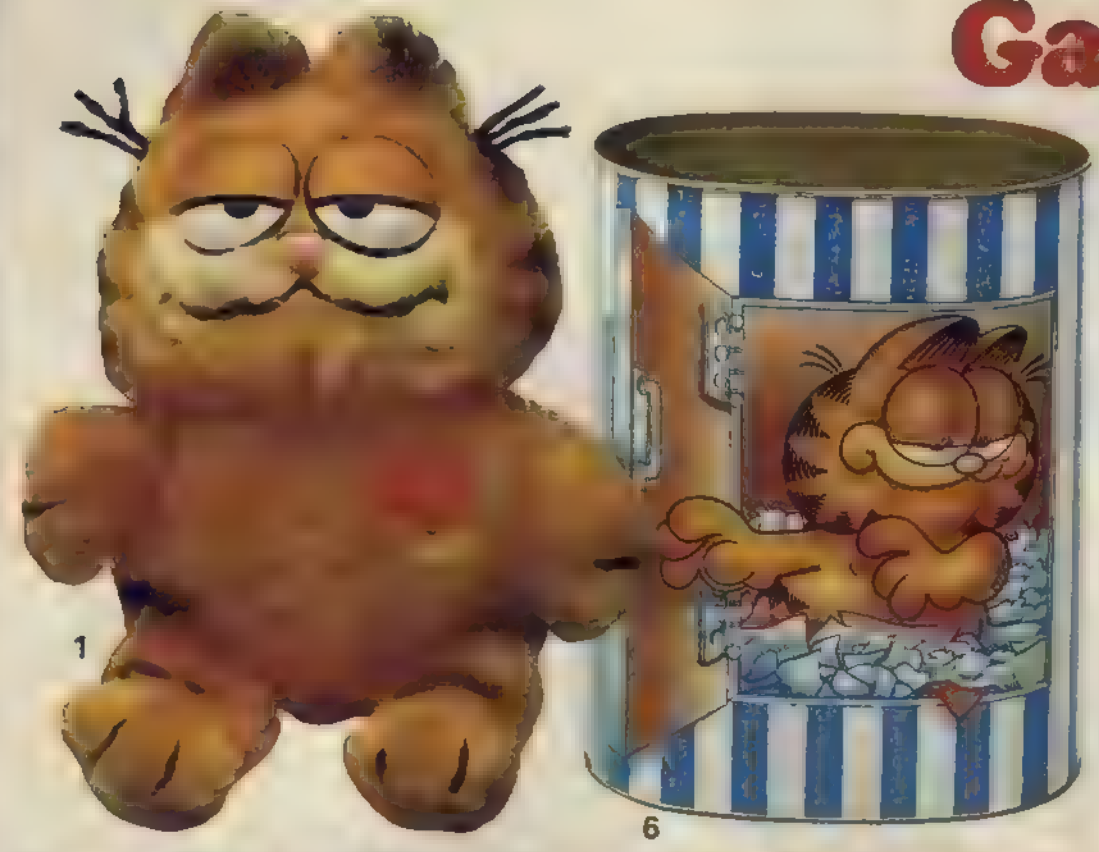
49 N 14146—Shpg. wt. 1 lb. 8 oz. .....Kit $9.99

Save $5.00 when you buy both Dollhouse (12) and Furniture Kit (13). Wt. 18 lbs.

49 N 14145C.....Sep. prices total $39.98, Kits $34.98

*NOTE: Not recommended for children under 3 years due to small parts.

Garfield



(1 thru 5) Garfield™ and his friends are looking for a good home in time for the holidays. They make great "pets" for children and are good company for adults too. Cuddly acrylic plush bodies are surface washable.

For ages 3 years and up.

(1) Garfield™ 5¾ inches tall.
49 N 41105—Wt. 2 oz.... $4.99

(2) *New at Sears!* Nermal™ 6½ inches tall.
49 N 41108—Wt. 4 oz. $7.99

(3) *New at Sears!* Arlene™ 7½ inches tall.
49 N 41109—Wt. 3 oz. $7.99

(4) *New at Sears!* Pooky™ 7 inches tall.
49 N 41107—Wt. 2 oz. . $4.99

(5) Odie™ 6 inches tall.
49 N 41106—Wt. 2 oz. . .$4.99

(6) Metal Wastebasket featuring the famous feline makes a colorful addition to any room. Measures 12½x13½ inches high, has 12 quart capacity. Wt. 1 lb. 8 oz.
49 N 92029 . . $4.99

(7) Brighten up your desk with a little help from Garfield™ 3-piece Desk Set includes 14x20-inch desk pad, 4x6-inch note pad with 50 sheets of paper and one year pocket-size diary with 96 pages, 3¾x4¾ inches; laminated chipboard. Wt. 2 lbs. 5 oz.
49 N 92034..... $9.99

(8) With this package of 36 Garfield™ Pencils, there's no excuse for not writing.
49 N 3631—Wt. 8 oz. .Pkg. $4.99

(9) Garfield™ Cork Board keeps you posted on what's happening. 17x23 inches. Fiberboard backing.
49 N 94125—Wt. 4 lbs. . $7.99

(10 and 11) A Garfield™ Scrapbook is the perfect place for your photos, notes, cards and other treasures. Comb bound with latex-saturated paper sheets.

(10) 120-page Scrapbook measures 11x15 in. Wt. 1 lb. 14 oz.
49 N 92032.....$8.99

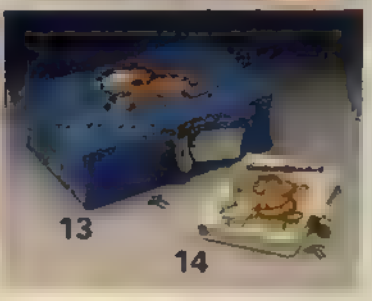
(11) 50-page Scrapbook measures 8½x10¾ inches.
49 N 92031—Wt. 11 oz. ...$4.99

(12) Have lunch with Garfield™ Lunch Kit includes an 8-ounce break-resistant Thermos® bottle with Flip N Sip stopper. Plastic box 9x4x7¾ inches.
49 N 92035—Wt. 1 lb. 5 oz. .$6.99

(13) Chipboard Stash Box has a lock to keep your secret treasures safe. 9⅛x6x7⅛ inches.
49 N 92030—Wt. 7 oz. $4.49

(14) For recording your most personal thoughts, this one-year Garfield™ Diary with padlock is dear. 80 pages. 4¾x5⅝ inches.
49 N 92033—Wt. 8 oz. $5.99

GARFIELD ®1978 United Feature Syndicate, Inc.



SAVE THIS CATALOG

You can order any item on pages 431 thru 598 from now until AUGUST 31, 1985

Whether you're looking for extra stability, superior strength or a great price, this is the Swing Set for you ... features an extra-sturdy 2⅜-in. tubular steel, 6-leg frame

Includes 4 fun activities and a 6-ft. slide to entertain active children

Cut $40

$119.99 The extra-sturdy, 2⅜-in. diameter tubular steel frame is 18% heavier than 2-in. frames and coated with scratch-resistant epoxy-enamel sealed with acrylic enamel to resist weathering. Activities include 2 swings, 2-rider lawn swing and glide ride. Seats and backs reinforced with steel to give rides stability. Nylon bearings provide smooth, quiet rides. Galvanized steel slide is 35 in. high and has an acrylic-coated bed for added protection. All exposed bolts are covered, and all open edges are tucked under to help guard against abrasions. Overall height is 8 ft. 1 in. Base area is 11 ft. 2 in. x 9 ft. Unassembled. Was $159.99 in our 1984 Fall Big Book, page 683.

49 N 72226N—Shpg. wt. 132 lbs. ..$119.99

Little Tikes Toys bring the thrill of the playground to your home, all year long . . . indoors or out

(1 thru 3) Made of heavy double-wall polyethylene that can't rust or splinter ... and there are no sharp edges or corners to worry about. Wipe clean with a damp cloth. Unassembled, bolt together.

(1) Tike Treehouse ... lets kids climb, slide or just sit and relax. Sturdy 26¾x26½x28½ in. high play platform, 96 in. long slide. 51x41x52 inches high overall. See N suffix note p. 323.

For ages 1½ to 5 years.

49 N 71025N—Shpg. wt. 30 lbs. $78.99

(2) Swing House ... a special place to swing. One-piece swing on heavy-duty nylon ropes. Front bar, step, hold child securely. 48x39x48 in. high overall. See N suffix note p. 323.

For ages 9 months to 3 years.

49 N 71045N—Shpg. wt. 37 lbs. $78.99

(3) Country Cottage . . . a cozy little playhouse, just right for two. There are shutters and a dutch door that really open and close. Plus, there's a drop-leaf table built into the wall. There's even a play telephone with a clicking dial. Cottage comes in one section, 4 ft. high overall. Base area is 45x41 inches wide. Chairs not included, order on page 473.

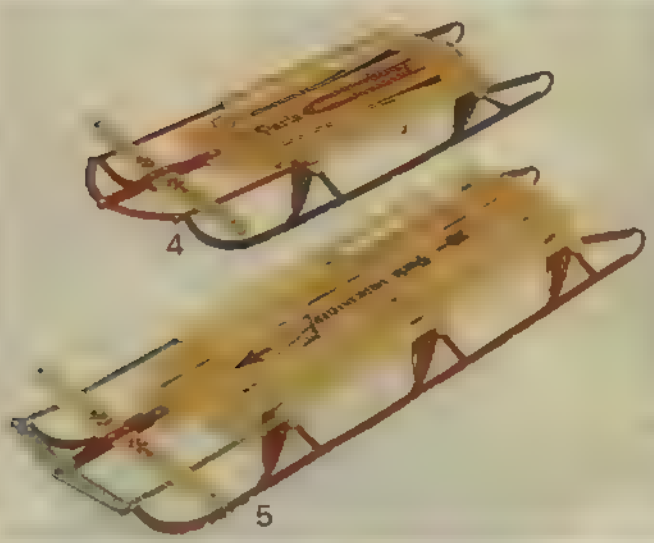
For ages 2 years and up.

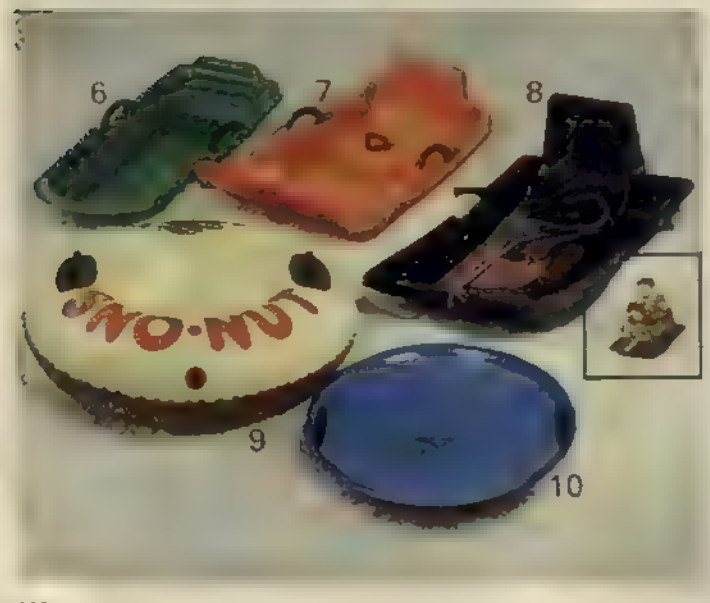
49 N 71607N—Shpg. wt. 90 lbs. . . . $169.99

WISH BOOK VALUE

Save $10

when you buy Baby Sled (1) and Cushion (2)





On the go . . . in the snow

(1) Take baby along when it snows. This Baby Sled has kiln-dried hardwood deck and rails plus grooved steel runners with turned-up ends. Zinc-plated handle swings over for pushing or pulling. Heavy-duty steel braces. Steel parts have baked-on enamel finish. 30x13-in. wide with 6½-in. high seat. Padded seat. Full instructions, hardware included. Ages 1½ to 4 years.
49 N 85010C—Wt. 11 lbs. 12 oz. **$39.99**

(2) Vinyl Baby Sled Cushion fastens on top sled for cushioned comfort.
49 N 85002C—Wt. 1 lb. **.....$19.99**

Sled (1) and Cushion (2) Outfit. Separate prices total $59.98
49 N 85004C—Wt. 12 lbs. 12 oz. **.....$49.98**

(3) Wheel Assembly lets you convert sled (1) for use on dry land. Foot lever retracts wheels. Hard rubber and enameled steel. Instructions inc.
49 N 85006—Shpg. wt. 3 lbs. 14 oz. **..$14.99**

(4 and 5) Swoop down the slopes right on sled with these wood and steel Sleds. Two-piece steering unit gives you more flexibility and better directional control than rigid assembly. Braces absorb bumps and shocks. Turned up runners eliminate sharp edges. Varnished kiln-dried hardwood deck and rails. Steel parts have a baked on enamel finish. See "N" suffix note, page 323. For ages 6 years and up.

(4) Wooden Sled
50-in. Sled. Wt. 10 lbs. 8 oz.
49 N 85009C **.....$29.99**
39-in. Sled. Wt. 7 lbs. 8 oz.
49 N 85005C **.....$22.99**

(5) Wooden Sled with chrome-plated steel front bumper.
60-in. Sled. Wt. 14 lbs. 8 oz.
49 N 85011N **.....$39.99**
54-in. Sled. Wt. 11 lbs. 11 oz.
49 N 85012N **.....$34.99**

(6 thru 8) Streak downhill or coast along in a Snow Glider. Plastic handbrakes and wide molded runners for tracking and speed stability. Durable polyethylene withstands minus 40° temps.

(6) Sno-Motion . . . extra light for youngsters. 38 inches long. For ages 4 to 10 years.
49 N 85146C—Wt. 3 lbs. **.....$9.99**

(7) Snow Fighter. 37 inches long. Tow rope. For ages 6 to 12 years. Shpg. wt. 4 lbs. 10 oz.
49 N 85137C **.....$14.99**

(8) There's plenty of room for two on this Snow Tandem. Tow rope. 42 in. long. See "N" suffix note, p. 323. For ages 6 years and up.
Shpg. wt. 7 lbs. 8 oz.
49 N 85139N **.....$24.99**

(9) Coast down a snow covered hill on this inflatable Sno-Nut . . . gives you a soft air cushioned ride. Sturdy heavy-duty vinyl withstands minus 20° temperatures. Has double thickness rope ride. 34-in. diameter. Patch kit included.
For ages 5 years and up.
Shpg. wt. 4 lbs. 8 oz.
49 N 85128 **.....$12.99**

(10) Arctic Circle steel Snow Saucer provides hours of whirling, swirling fun . . . simply shift your weight to control the action. This durable disc has a baked-on enamel finish for super dash, smooth gliding. Fully rolled edges and rugged plastic sure-grip handles. Large 26-inch diameter disc with deep seat for safety.
For ages 5 years and up.
Shipping weight 7 lbs.
49 N 85023C **.....$12.99**

(11 and 12) Help your child learn one of the most popular winter sports—skiing. These Beginner's Skis include everything you need to start sliding down the slopes . . . you don't even need special ski boots. Convenient front-toe release bindings allow foot to release laterally in a fall. Enameled hardwood skis are grooved for great tracking. ABS plastic bindings with adjustable tension control. Plastic heel plates. Molded fiber glass poles have vinyl wrist straps, plastic snow rings and blunt ends. Not for use on professional ski slopes.

(11) 54-inch Cross Country Skis are 2⅛ in. wide and have durable, laminated tips. Fit 7¾ to 10-inch shoe length. 40-inch poles.
For ages 7 to 14 years.
Shpg. wt. 5 lbs.
49 N 85183C **.....$29.99**

(12) 36-inch Downhill Skis are 2½ inches wide. Fit 5 to 7½-inch shoe length. 30-inch poles.
For ages 3 to 6 years.
Shpg. wt. 3 lbs.
49 N 85181C **.....$19.99**

All merchandise on this page available until Feb. 15, 1985 only

Root for the home team!

(1) NFL Collector's Set includes a loose-leaf album with 4 plastic protector pages, 50 cards, featuring NFL stars from the last 5 years and 50 individual card sleeves. Also includes ten 8½x5½-inch Superstar Mini Posters, NFL poster, 15 Super Bowl action scene cards and card pricing guide.
49 N 92036—Shpg. wt. 3 lbs. .....Set $15.99

Extra Card and Page Set (not shown) for (1) above. Includes 50 past players and scenes not found in the set above, plus 8 plastic protective pages.
49 N 4060—Shpg. wt. 12 oz. .....Set $6.99

Complete NFL Collector's Package includes Set (1) plus Extra Card and Page Set above.
Separate prices total $22.98
49 N 92037—Shpg. wt. 3 lbs. 12 oz. $19.98

(2) Metal Wastebasket has a 30-qt. capacity. 19 in. high x 10¾-in. diameter. Order from chart below.
Shipping weight 5 pounds.....$10.99

(3) 33-pc. Pennant Set incl. 32 synthetic felt 4x9-in. pennants featuring all NFL teams, 4 league pennants plus a 12x30-in. polyester pennant from your choice of 12 teams. Order from chart below.
Shipping weight 7 ounces.....Set $5.99

(4) Bulletin Board has cork veneer front, fiberboard back. 16½x22½ in. Order from chart below.
Shipping weight 2 lbs. 5 oz. $7.99

NFL Team	(2) Waste-basket	(3) Pennant Set	(4) Bulletin Board
Atlanta Falcons	T49N42170	T49N4660	T49N66065C
Chicago Bears	O49N42171	O49N4664	O49N66066C
Cincinnati Bengals	O49N42172	O48N4665	O48N66067C
Dallas Cowboys	49N42173	49N4667	49N66068C
Los Angeles Raiders	T49N42177	T49N9217	T49N941C7C
Los Angeles Rams	49N42175	49N4675	49N66070C
Miami Dolphins	T49N42176	T49N4676	T49N941C8C
Philadelphia Eagles	T49N42178	T49N9216	T49N941C8C
Pittsburgh Steelers	49N42179	49N4688	49N66074C
San Diego Chargers	T49N42180	T49N4697	T49N941C9C
San Francisco 49ers	O49N42181	O49N4698	O49N66076C
Washington Redskins	T49N92040	T49N9204	T49N941260

Items with "T" prefix (such as T 49 N 42176) could take extra time for delivery.

(5) 28-team NFL Pencil and Cup Set. Each team is featured on a No. 2 lead pencil, while metal cup holder has NFL insignias. 2x7½ inches high.
49 N 92038—Shpg. wt. 8 oz. .....Set $4.49

(6) Helmet Push Pins feature all 28 NFL teams in official team colors and insignias. Molded polystyrene with heat-treated high-carbon steel shaft.
49 N 6622—Shpg. wt. 5 oz.....Set $4.99

(7) Superstar Running Back and Quarterback Calendar features 6 top NFL running backs, 6 top quarterbacks on 12-mo. 1985 calendar. 8½x11 in. closed.
50 N 5702—Shpg. wt. 12 oz. $4.95

Details on Manufacturers' Rebates and specified Bonus Offers

HOW TO GET YOUR MANUFACTURER'S REBATE

1. Purchase before December 25, 1984.
2. Cut out Proof of Purchase (see details at right).
3. Attach original Sears dated sales receipt.
4. On separate sheet of paper print your name, address with zip code, rebate amount and the words "(name of toy) Rebate Offer."
5. Mail all three items above to address listed at right.
6. Request must be postmarked no later than January 5, 1985. Limit one rebate per household per item. Allow 6 to 8 weeks for receipt of rebate. Manufacturer will send you a check or product where specified, for the amount of rebate.
7. Offer void where prohibited, taxed or otherwise restricted. Offer good only in U.S.A.

If any product you order from our catalog has a manufacturer's rebate not listed here, we'll send you the rebate information along with your order.

Bachmann. Proof of Purchase: Stock number from box.
Mail to: Bachmann Industries, Inc., P.O. Box 1149, Rdgely, MD 21681

Milton Bradley. See details and instructions in package.

Child Guidance. Proof of Purchase: Item name and words "A Child Guidance Pledge to Parents" on back panel.
Mail to: Child Guidance/Wonder Rebate Offer, P.O. Box 748A, Westville, NJ 08093

Coleco. Proof of Purchase: Seal from the boxes of both the Colecovision Video game system and the Colecovision game cartridges manufactured by Coleco. Also, guide number must be clipped by the customer from the corners of the instruction booklet of both the Colecovision video game system and the Colecovision video game cartridges. Specify Black or White doll. Male/Female choices are not allowed.
Mail to: Colecovision/Cabbage Patch Kids Offer, P.O. Box 9727, Bridgeport, CT 06699

Fisher-Price. Proof of Purchase: Seal or UPC Bar Code from package.
Mail to: Fisher-Price Music-to-Your-Ears Rebate, P.O. Box 922, Young America, MN 55399

Kenner. For free Anakin Skywalker figure. Proof of Purchase: 5 Proof of Purchase Seals from any Star Wars Action figure.
Mail to: Return of the Jedi Figure Offer, P.O. Box 648, Young America, MN 55399

Kenner. For free poster. Proof of Purchase: Round General Mills Proof of Purchase seal.
Mail to: Kenner Fall Rebate, P.O. Box 5285, Minneapolis, MN 55460

Lakeside. See details and instructions in package.

Mattel. Proof of Purchase: Mattel's stock number on box.
Mail to: Mattel Holiday Savings, P.O. Box 4188, Syosset, NY 11791

Parker Bros. Proof of Purchase: See Parker Bros. Video Game rules book.
Mail to: Parker Brothers Video Game Rebate, P.O. Box 5257, Minneapolis, MN 55460

Tonka. Proof of Purchase: Proof of Purchase Seal from package.
Mail to: Tonka Toys Rebate Offer, P.O. Box 687, For cash rebates, El Paso, TX 79966

Tonka. Little Worker Promotion.
Proof of Purchase: Proof of Purchase Seal on box and receipt. Purchase must total $14.50 or more.
Mail to: Little Worker Promotion, P.O. Box 4760, Monticello, MN 55365

Tonka. Fire Helmet Promotion. Proof of Purchase: Seal from Aerial Ladder Truck 49 N 55000C. Include check for $2.99.
Mail to: Fire Helmet Promotion, P.O. Box 4760, Monticello, MN 55365

Tyco. Proof of Purchase: Sears or Tyco stock no. printed on box.
Mail to: Tyco Rebate Offer, P.O. Box PM 192, El Paso, TX 79966

Wico. Proof of Purchase: UPC Code (1111). Purchase by Sept. 30, 1984.
Mail to: Big Bucks Backo Rebate, P.O. Box 1094, Libertyville, IL 60198

Color your world Rainbow Brite™

1) Rainbow Brite™ is a bundle of bright delight! She's 9 inches of soft-sculptured fabric with an adorable vinyl face and combable sunshine-colored yarn hair. She comes with her own Twink™ sprite pet to help them chase the gray away from your day! Story book included.
For ages 3 years and up
49 N 31237—Wt. 1 lb. 8 oz. **$9.99**

2) What better hide away for 9-in. Rainbow Brite™ and her friends than this beautiful Color Cottage™. Soft-sculptured fabric play house is full of colorful accessories. Close up the Color Cottage flap and it's all ready for travel. Dolls not included. Accessories unassembled.
For ages 3 years and up
49 N 31284—Wt. 4 lbs. . **$17.99**

3) The Color Buggy is 13 inches of free-wheeling fun for 9-in. Rainbow Brite™ and her colorful friends. It features rolling wheels, antenna with colorful pennant, cookie seats with sea heels, steering wheel and decals. Fabric and plastic. Dolls not included.
For ages 3 years and up
49 N 30268—Wt. 3 lbs. **$10.99**

4) 18-inch Rainbow Brite™. As (1) above but with as much to love!
49 N 30267—Wt. 2 lbs. **$19.99**

5) thru 7) The Color Kids are here to help Rainbow Brite™ fill the world with color and cheer! 9-in. soft-sculptured fabric dolls have vinyl faces and combable yarn hair. Each has removable outfit and very own color sprite to match!
For ages 3 years and up
(5) 49 N 31223—Red Buber and Romero sprite
(6) 49 N 31224—Canary Yellow and [illegible]
(7) 49 N 31269—Patty O Green and Lucky sprite
Shpg. wt. 1 lb. 8 oz. . Each **$9.99**

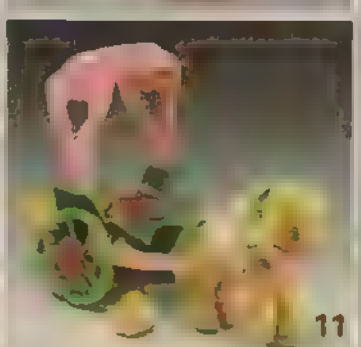
8 thru 12) Cheerful plush sprites help Rainbow Brite™ keep the world bright and full of happiness. They're soft and huggy 12-in. animals with fabric arms, felt paws, stars on their heads. Story book incl.
For ages 3 years and up
8) 49 N 31228—White Twink sprite™
9) 49 N 31225—Blue Champ sprite™
10) 49 N 31263—Green Lucky sprite™
11) 49 N 31241—Red Romero sprite™
12) 49 N 31231—Yellow Starx sprite™
Shpg. wt. 1 lb. 7 oz. . Each **$9.99**

13) Lucky is a warm cuddly bundle of fun who's mixed by one and all. He's easy to spot with his big fuzzy nose, kooky eyes, zany antennas—and best of all, his shaggy red and white sneakers. 12-in. tall with fabric hands. Story book included.
For ages 3 years and up
49 N 30261—Wt. 1 lb. 3 oz. . **$14.99**

14) Who's that trying to spoil all the fun? We think it's Murky Dismal and he'll try to take all the colors away. He's 9 inches of crabbiness in a soft, fabric body. He carries an ominous cloud in his bag of gloom. Story book included.
For ages 3 years and up
49 N 31280—Wt. 1 lb. 3 oz. **$9.99**

15) Rainbow Brite™ View-Master® Set. [illegible] 3 viewers, 3 reels.
49 N 0693—Wt. 8 oz. **$5.99**
[illegible] Rainbow Brite™ and Tradewinds. Hallmark Cards, Inc.

Scrumptious Strawberry Shortcake®



Cassette Tape Player-Recorder
with headphones
lets you listen privately or with a friend

Save $1
when you buy 2
Listen 'n Look Book Sets

Chipmunks or
Care Bears
Cassette/Book
Sets each
with 3 different
story titles

Set of 10
Wonder Why"
Books

(1) Smurf* Talking Toothbrush sings about brushing daily . . helps keep teeth sparkling white Plastic 6¾x4½x10¾ in high Uses 3 "AA" batteries (not incl , see page 601) *Was $14.99 in 1984 Toy Specialog, p. 6*
For ages 4 thru 10 years
49 TA 13007—Shpg wt 1 lb 4 oz . . . **$9 99**

(2) Morning, noon and night . . Snoopy** electric toothbrush brushes your teeth up and down Includes 2 brushes, cup and stand Plastic 8x4x10 inches high Requires 2 "C batteries (not included, sold below)
For ages 3 years and up
49 TA 13012—Shpg wt 13 oz **$9 99**

(3) Children will enjoy listening to their own cassette Tape Player-Recorder that comes with a set of real headphones Kids can use the activity tape included, to make their own recordings Built-in microphone and easy-to-use push buttons Molded plastic shell 8¼x8x8½ in high Imported. Uses 4 "C batteries (not included, sold below)
For ages 5 years and up
49 TA 66086—Shpg wt 2 lbs **$29 99**
DieHard Alkaline "C" Batteries. Package of 2
49 TA 30929—Shpg wt 5 oz . . Pkg **$2 19**

*Smurf Peyo 1982 S.E.P.P.
**Peanuts Characters 1958, 1965 United Feature Syndicate, Inc

(4 thru 12) Listen 'n Learn Book Sets help make learning to read fun . . feature the characters kids like best Each set includes one cassette one side has word-for-word narration (plus sound effects and dialogue) that follows the large print in the colorfully illustrated, paperback storybook, Side two is blank so children can create and record their own stories
Shipping weight set ea. 7 oz.
For ages 3 to 7 years

Item	Title of set	Catalog Number
4	G.I. Joe®#1	49 TA 56913
5	G.I. Joe®#2	49 TA 56936
6	Chipmunks™	49 TA 56914
7	Masters of the Universe®	49 TA 56915
8	My Little Pony™	49 TA 56917
9	Muppets™	49 TA 56916
10	Chipmunks™	49 TA 56918
11	Poochie®	49 TA 56919
12	Garfield™	49 TA 56921

Each **$5 99**
2 or more . . each **5 49**

(13 and 14) Read-Along Book and Cassette Tape Sets include 3 cassettes plus 3 matching storybooks Kids will enjoy reading along with and listening to stories about their favorite characters—over and over again Shpg wt 1 lb
For ages 3 to 8 years.

(13) Chipmunks Cassette/Book Set follows the adventures of Alvin, Simon and Theodore. Story titles include, The Chipmunks Story, May The Best Chipmunk Win, and The TV Chipmunks.
49 TA 66937 . . . . . **$9.99**

14, Care Bears™† Cassette/Book Set Story titles include Meet The Care Bears; A World Made of Love; and Care Bears Bedtime Story
49 TA 66794 . . . . . **$9.99**

Care Bears Record/Book Set (not shown). Same story titles as (14) above Shpg wt. 8 oz
For ages 3 to 8 years
49 TA 66745

†Care Bears® American Greetings Corp 1983

(15) Menudo Create-A-Concert™ Entertainment Set has everything you need to stage your own Menudo show Includes 30-in double-cutaway show guitar with 6 nylon strings, precision tuning pegs and accurately-fretted fingerboard, deluxe silver-color metallic guitar strap, full-color collector's Menudo wall poster; full-color program guide with member's pictures and profiles concert ideas guitar instructions Shpg wt 2 lbs 10 oz.
For ages 6 years and up
49 TA 66485C **$19.99**

(16) Set of 10 "Wonder Why" Books Enter the fascinating worlds of science, nature and history with this delightful, "library" These paperback books are filled with vivid text and lots of fun things to do Color illustrations on each page. Titles Moving Machines, Planets, The First Men On Earth, Ships Great Explorers; The Earth, All About Horses; and Your Body—What You Eat And Where It Goes, plus 2 more subjects 32 pages per book.
For ages 6 years and up
49 TA 16944—Wt. 2 lbs 6 oz. **$6.99**

(1) Talking Alvin Plush Toy is a big, cuddly 18-inch character, featuring a pull-string mechanism with the authentic voice of the famous Chipmunk. Acrylic fabric. For ages 3 years and up
49TA41151—Shpg wt 2 lbs .**$19 99**

(2 thru 4) Soft and cuddly these 10-inch Chipmunks™ Dressable Plush Toys come dressed in their familiar T-shirts with large printed character portrait on front. Outfits are removable to allow these singing stars (Dressable Figures) and Figures of acrylic fabric and outfits are surface washable and flame-resistant. For ages 3 years and up

(2) 10-inch Alvin
49 TA 41152—Wt 12 oz **$8 99**

(3) 10-inch Simon
49 TA 41154—Wt 12 oz **$8 99**

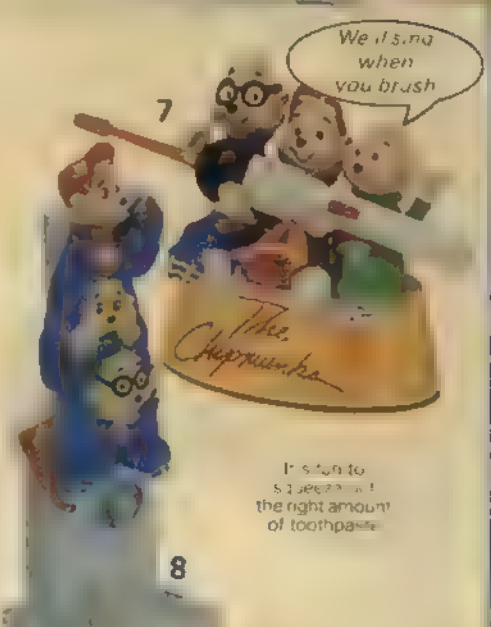
(4) 10-inch Theodore
49 TA 41153—Wt 12 oz **$8 99**

(5) The Chipmunks take their show on the road in the On Tour™ Van. This mobile van is a motor home that converts to a concert stage with lots of room. Rolls freely as you push it along. Serves as storage case when closed. David Seville figure is there to manage the show and sit in the drivers seat. (Chipmunks not included, order (6) below.) Plastic. 19 4x6¾x10¾ in. high. For ages 3 years and up
49 TA 50966 Wt 2 lbs 7 oz **$18 99**

(6) The Chipmunks™ Musical Play-Figures Set are delightful miniatures of Alvin, Simon and Theodore with instruments. They love to get on stage and give a show. 2½ in. high. Plastic. Set of 3. For ages 3 years and up
49 TA 50973—Wt 8 oz ..Set **$5 49**

(7) The Chipmunk™ Singing Toothbrush you'll hear Alvin, Simon and Theodore sing about brushing every day. Plastic. 5½x4 4x7 in. high. Uses 3 "AA" batteries (not included, order 2 pkgs. below). For ages 4 years and up
49 TA 13329—Wt 1 lb 6 oz .**$15 99**

DieHard AA Alkaline Batteries. Pkg
49 TA 30909—Wt 2 oz .Pkg **$1 79**



(8) Chipmunks™ Toothpaste Dispenser. Squeezes out just the right amount for any size toothpaste tube, when you push the button. No batteries needed. Plastic. 4½x3¼x11¼ in. high. For ages 4 years and up
49 TA 13328—Shpg wt 9 oz .**$5 99**

(9) The Chipmunks™ Camera makes taking pictures fun features Alvin and it really works! Colorful plastic. Uses a standard 126 film cartridge and Magicubes (not incl.). 5x3x5 in. high. For ages 5 years and up
49 TA 13327—Shpg wt 8 oz .**$7 99**

your choice **$18.99**

(1 thru 3) Stomper Action Sets are warranted by

1) Challenge falling rocks and bumpy terrain on the Stomper Earthquake-Alley Set. YOU operate 8 side of your 4x4 Stomper II with 3 speed action as it turns includes 3 straight tracks, a runner assembly, and 16 pieces of terrain. Stomper vehicle includes one "AA" battery. Plastic. 82 pieces in all. Unassembled instruc-

Set $18.99

sault Team Set's bridge with your 48 soldiers safely a You deploy your Stomper Mobile Force Tank's blast gun nests with machine guns, 2 each included. Barricade blocks stand in your way over the 3 straight

$18.99

(3) Line cars up and let them rip down the Stomper Super Dragsters Raceway Set's track. Place the two spoon and dragsters race down six feet of track. Finish gate has only one slot, so you'll know who's the

$18.79

(4) You can advertise sideways on the side of a truck as the van with the impossible Switcher Set. You decide where it will go on the 13 feet of textured roadway track to be positioned. Go around anywhere up a staircase or around a chair. Big Switch feature allows vehicle to reverse when on the park of dash. Battery and extra [illegible] cars go back over same track. Use without a base. Use as a spin around. Trailers cars go [illegible] Straight. Regular Trailers specially equipped car included. Requires 1 AA battery, not incl., sold below. Plastic. Partly assembled. Instructions included.
Shpg wt 4 pounds
For ages 4 years and up
49 N 54F 28C $24.99

Dashard AA Batteries. Package of 4. Shpg wt 2 oz
49 N 30909 .....Pkg $1.79

1 Choose one of 8 push button controls on top of Roadmates® Auto Transport's cab to activate all five ramps and stage devices. Load up to 14 mini-stage vehicles on flip-up ramp. Plastic transport measures 16x4x4" high unpainted. Cars not included. Requires 2 C batteries not included; order on page 559.
For ages 4 years and up
49 N 58223—Shpg wt 2 lbs 2 oz Each **$8.99**

2 and 3 Roadmates Mini-vehicle Sets. Die-cast metal vehicles with rolling and authentic styling.
For ages 3 years and up

(2) Roadmates 5-car Sport and Race Set
49 N [illegible]—Shipping weight 12 oz Set **$4.99**

(3) Roadmates 5-vehicle City and Street Set
49 N [illegible]—Shipping weight 10 oz Set **$4.99**

Save $4 when you buy Auto Transport 1 with piece Roadmates 5-vehicle Sets 2 or 3 sold above. Separate price is $13.98.

Transport 1 with Sport and Race Set 2
49 N 57334—Shpg wt 2 lbs 14 oz Set **$9.98**

Transport 1 with City and Street Set 3
49 N 58190—Shpg wt 2 lbs 12 oz Set **$9.98**

$8.99 4 Do you have a mini-car with a strange peg or bump? Just put it into the Roadmates Auto Tester Center and check under the hood. Use the Engine Analyze with mechanical sounds and sparking headlights. Wheel alignment tests. Front-end alignment tests. Gas pump sends mini-car on short ride. Car wash opens and closes. 14x3½x3" high. Plastic building and machines. Requires 4 AA batteries not included; order on page 559. Stage case. Partly assembled. Cars not included.
For ages 3 years and up
49 N 57290—Shpg wt 2 lbs 1 oz Each **$8.99**

5 Man your station, load your racers, smash the booster crash! The Basin Smash Hot Wheels® set includes cars, the gear at the Wave X crash intersection and the ramp. Set comes with 2 Hot Wheels® cars. Crash Zone and Street Smasher plastic track 2 sections for [illegible] and return module 47½x44". Partly assembled. Cars not included. For ages 3 years and up.
49 N 57269—Shpg wt 2 lbs Set **$14.99**

6 Hot Wheels® Vehicles Gift Set includes 47's Woodie Stationwagon, 34' 55 Chevy, Sport Wagon, 63' 57' Bird and 57' Chevy. Comes with 2 vehicles. Die-cast metal and plastic. For ages 3 years and up.
49 N [illegible]—Shpg wt 1 lb Set **$6.99**

7 Just load the Speed Shooters magazine with up to 12 Matchbox® mini-cars, pull back stock and cars come speeding out. Keep gathering. Fire one or two cars out at a time for rapid-fire passion. Plastic launcher 12x4½x2". Cars not included. For ages 3 years and up
49 N 54547—Shpg wt 2 lbs **$14.99**

8 Matchbox® Turbo Racer 5-car Set. Die-cast metal construction. Cars are the same as 7 above. 1:64 scale.
For ages 3 years and up
49 N [illegible]—Shpg wt 4 oz Set **$5.99**

9 thru 11 Penny Racer™ Sets feature pull-back motorized mini-cars that pop wheelies and do care-free stunts. Just put a penny or two in the back of the cars and they're ready for action. Racers are plastic 3 inches long. For ages 3 years and up.

9 Penny Power Racing Garage Set includes 2 racers and a carrier/case. Garage opens by pushing a penny into the dock. Penny-activated pneumatic elevator lifts racers to the top of the garage case. 10x2 inches high. Plastic stunt garage case is 10x2 inches high.
49 N 58156—Shpg wt [illegible] 12 oz Set **$10.99**

10 3-car Penny Racer Set comes in package that converts into stunt ramp.
49 N 58167—Shpg wt 3 oz Set **$4.99**

11 Only at Sears! Penny Racer Stunt N Race Case Set with 5 Mini-size Penny Racers. Press the lever on starting gate and cars do stunts. Racers travel through the loop. Plastic stunt garage case is 10x2 inches high.
49 N 58106—Shpg wt 9 oz Set **$9.99**

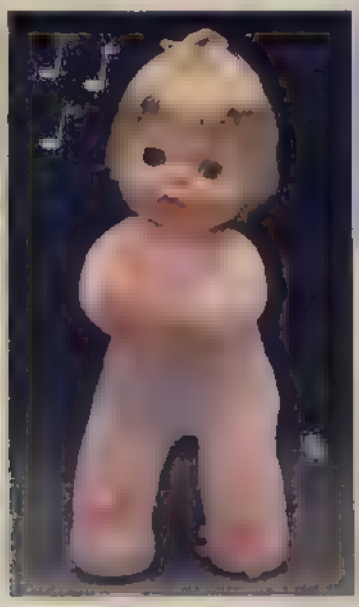
12 Test your skill with the TN™ Hazard Hill Stunt Set. Blast past a dangerous tunnel, avalanche and blasting zone that throws car into the air. Air-powered vehicle with pump launcher. Plastic and stage. Partly assembled. Batteries. For ages 3 years and up
49 N 58112—Shpg wt 2 lbs Set **$12.99**

13 Avoid barriers and ramp gates as the Five Wonder™ Course Crash tries to smash your vehicle. Gear-driven car races you past stop, speed, jump and go! Pop wheelies and go for speed ahead. Course has die-cast metal. Five Wonder vehicle included with launcher platform. Plastic and metal. Partly assembled. Batteries not included.
For ages 4 years and up
49 N 58114—Shpg wt 1 lb 9 oz Set **$8.99**

14 Perform stunts with 3-wheeling Gripper® Cycle Set. Pull-back powered cycles ride on real rubber balloon tires. Ideal as the cycles run almost anywhere. Honda, Kawasaki and 2 Yamaha models with 4 trick riders, not 2¾" long, imported.
For ages 3 years and up
49 N 58602—Shpg wt 14 oz Set **$5.99**

Babies in toyland

3



6

1

7

(1) Sweet Soft Love Baby Waiting to be hugged! Her ultra-soft [illegible] body has vinyl arms, legs and head. Baby-fine hair and dress her in clothes made especially for her. Give her a new look every day. Imported. See Note at right. For ages 3 to 10 years. Shpg wt 1 lb 8 oz.

49 N [illegible] $7.99
49 N 31497—Black Doll 7.99
49 N 31498—Hispanic Doll 7.99

(2) 12-piece Sweet Soft Love Wardrobe includes 1 pc. pajama with cap, overalls, blouse, dress, panties, sunsuit, bonnet, 4 hangers. Fits dolls to 11¾ in. high. For ages 3 to 10 years.
49 N 31856—Shpg wt 5 oz. ..... Set $4.99

(3) Pretty Baby Susan comes with her own 6-piece Layette Set. She has a vinyl body with rooted, washable hair and painted features. 9 in. tall. Incl. bottle. For ages 3 to 10 years.
49 N 31250—Shpg wt 1 lb. $4.99

(4) She really walks! Walk-A-Bye Baby takes tiny steps in the [illegible] Walker. Her vinyl body has movable arms and head with combable hair. She's 10 in. tall with [illegible] eyes. Needs 2 AA batteries, sold and right. See Note at right. For ages 3 to 10 years.
49 N 31511—Shpg wt 2 lbs. $11.99

(5) Squeezably-soft Musical Baby moves her head to sway. Baby. Just pull string and she is lulled by a sleepytime song. Her [illegible] cloth body has vinyl head and combable hair. She's 13 inches tall, with go-to-sleep eyes. Imported. See Note at right. For ages 3 to 10 years.
49 N 31624—Shpg wt 1 lb 8 oz. $11.99

(6) Bath time is fun-time with Wash-A-Bye Baby and her own tub. Her vinyl body has painted eyes; she drinks and [illegible] 2 inches tall. After her bath, wrap her in her pink blanket. Also incl. synthetic sponge puff. See Note at right. For ages 3 to 10 years.
49 N 31444 Shpg wt 2 lbs 6 oz.

(7) Baby Fussy is oh so fussy, moving her arms and legs, until you soothe her with her pacifier. Her vinyl body has jointed arms and legs, painted features and sculptured hair. 10 in. tall. Requires 2 AA batteries, sold below. Imported. See Note below. For ages 3 to 10 years.
49 N 31291 Shpg wt 1 lb 4 oz. $9.99

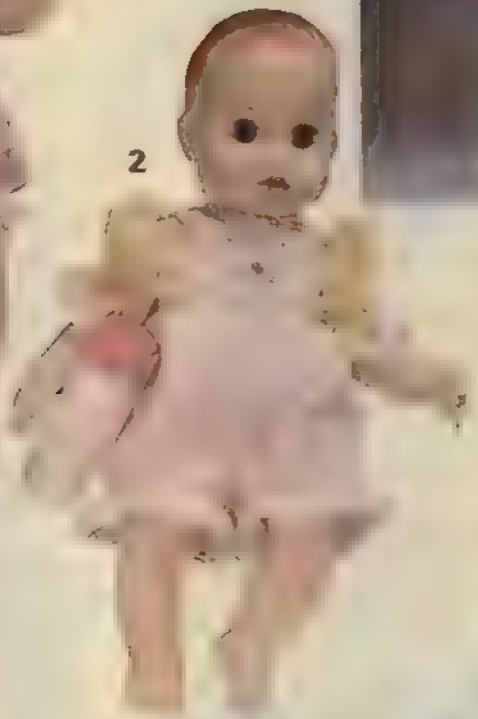
Duracell Alkaline AA Batteries. Pkg of 2.
49 N 30909—Shpg wt 4 oz. Pkg $1.79

Note: Clothing colors and fabrics may vary from items shown on this page.

SAVE THIS CATALOG

You can order any item on pages 431 to 598 from now until Aug. 31, 1985

1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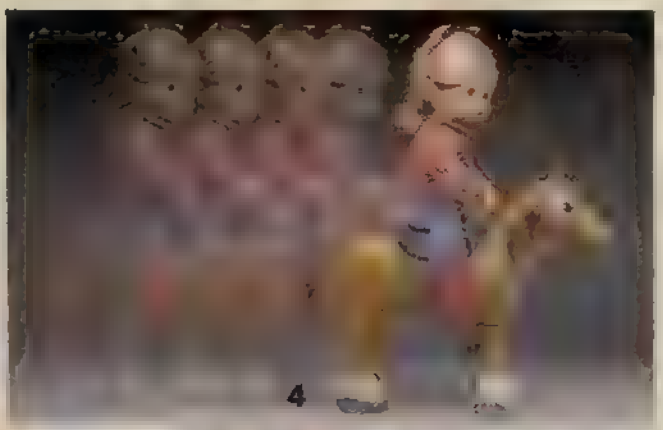
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6

WISH BOOK
VALUE
Musical Vanessa
Save $3
7

13

14

15

16

Action Vehicles...built for lasting fun

Tonka

Toys (1 thru 3)
$2 Rebate
from Tonka

Bonus Offer!
Free Hardhat
when you buy any
Tonka Toys
totaling $14.50 or more
See details on page 498

1

2

3

4

Mighty Loadmaster (4)
$1 Rebate
from Tonka

Free Hardhat
when you buy Aerial Ladder (5)
See details on page 498

5

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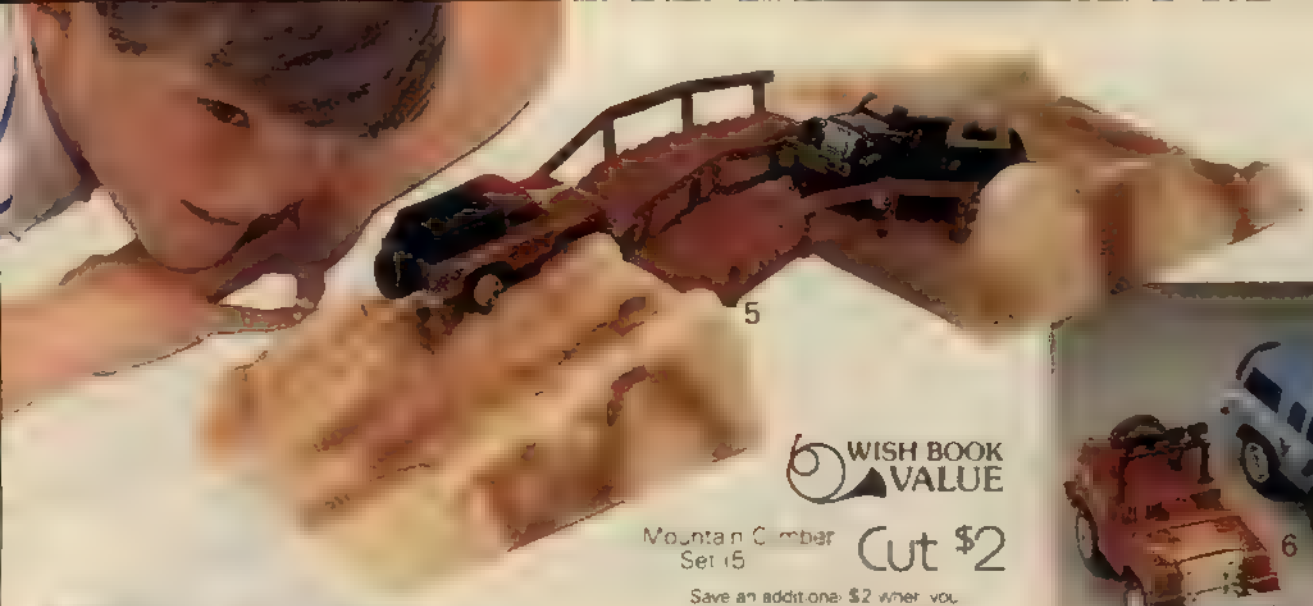


WISH BOOK VALUE

Mountain Climber Set (5) **Cut $2**

Save an additional $2 when you buy Set (5) with Car Set (6

(5) Test rugged terrain with 4x4 power on the Big Foot® Roadmates Mountain Climber Set. Jeep® CJ7, Golden Eagle® and Bronco die-cast metal vehicles roll with large treaded tires and friction drive motors. 2 plastic mountains. 15x8x4" h. Was $8.99 in 1983 Christmas Book, p. 584. For ages 4 years and up.
49 N 57298—Wt. 1 lb. 8 oz. . . Set **$6.99**

(6) Roadmates 4x4 Vehicles Set, Jeep® CJ7 and Cherokee® Die-cast metal friction drive motors. 4x2" h. For ages 4 years and up.
49 N 57297—Wt. 12 oz. . . Set **$4.99**

Save $2 when you buy Mountain Climber (5) with 4x4 Vehicles Set (6). Separately total $11.98.
49 N 57253—Wt. 2 lbs. 4 oz. . . Set **$9.98**

(7 thru 17) Free wheel in neutral or put 'em in gear with these Motorcycle Stomper™ Vehicles. 2 speeds except tanks and trucks, working headlights, running lights and safety tires. Molded plastic. 2 to 3" inches long. Each requires one AA battery. 7 req. 2 AA. For ages 4 years and up.

7) Stomper Semi Tanker. 10-wheel drive.
49 N 54922—Wt. 1 lb. . . Ea. **$13.99**

8) Wave Demons Trailer works on water or land with floatation tires.
49 N 54530—Wt. 10 oz. . . Ea. **$12.99**

9) Wilderness Camper and Trailer Set.
49 N 54704—Wt. 7 oz. . . Ea. **$6.99**

10 thru 17) Stomper 4x4 and Military Vehicles. Water Demon paddles for water. Tanks have treads. Turrets turn 360°.

Stomper	Catalog Number	Wt.	Price
(10) AMC Eagle	49 N 54575	4 oz.	$5.99
(11) Jeep® CJ	49 N 54[illegible]	4 oz.	5.99
(12) Jeep® Scrambler	49 N 54[illegible]	4 oz.	5.99
(13) Tanker Truck	49 N 54[illegible]	3 oz.	5.99
(14) Personnel Tank	49 N 54[illegible]	5 oz.	5.99
(15) Jeep®	49 N 54[illegible]	4 oz.	5.99
(16) Troop Carrier	49 N 54579	6 oz.	5.99
(17) Water Demon	49 N 54814	6 oz.	6.99

18) Plastic Carry Case holds 10 vehicles.
49 N 54569—Wt. 2 lbs. 3 oz. Ea. **$7.99**

(19) Experience the power of the Mammoth™ ATV. Military vehicle's 6-wheel drive action. Floating axles, big rubber tires and shock-absorbing flex. Requires 2 AA batteries sold below. Plastic. For ages 4 years and up.
49 N 54532—Wt. 1 lb. 1 oz. Ea. **$9.99**

(20) Climb that mountain with Power Driver 4x4 Jeep®. Heavy action motor. Control stick shifts forward, reverse and free wheeling action. Plastic. 8½x5⅝x5¼" h. Requires 2 C batteries sold below. For ages 4 years and up.
49 N 54535—Wt. 1 lb. 10 oz. . . Ea. **$9.99**

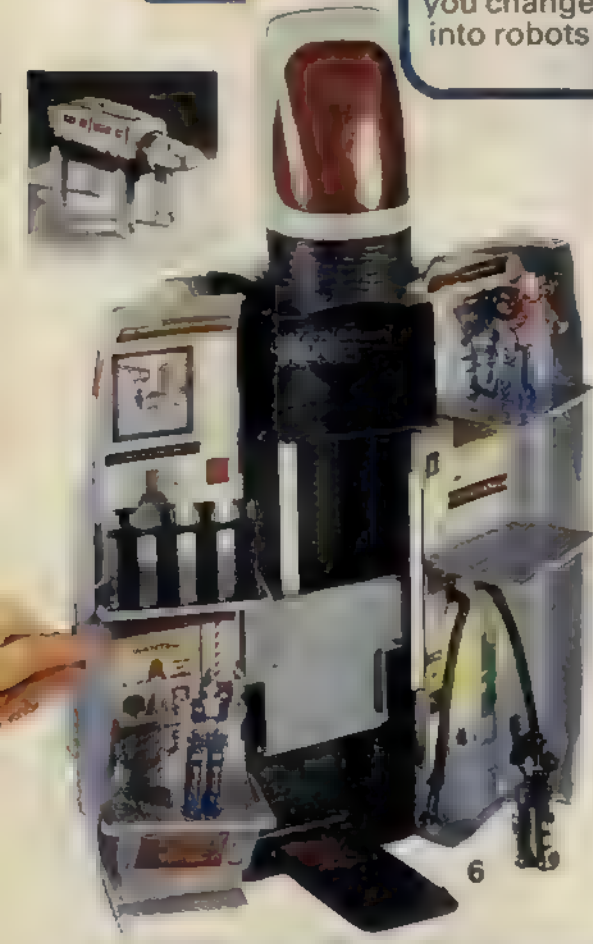
(21) Shift the hand control and the ACM Air Controlled Machine maneuvers at command. Machine uses air and batteries for 2 shifts steering. Plastic. 9¾x4¼x4¾" h. Requires 4 AA batteries below. For ages 4 yrs. up.
49 N 54546—Wt. 1 lb. 11 oz. Ea. **$12.99**

(22) Air-powered motorcycle action is yours with the Air Jammer Super 3-Wheeler. Makes real racing roar. Completely air powered plastic. For ages 5 to 8 years.
49N54542 Wt. 1 lb. 3 oz. . . Ea. **$16.99**
49N30308- AA Pkg. of 2 Wt. 2 oz. . . **1.79**
49N40319 C Pkg. of 2 Wt. 4 oz. . . **1.14**

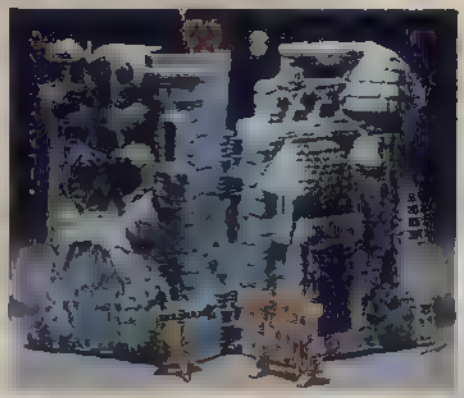
*Jeep registered trademark of Jeep Corp. and is used with permission.

GO BOTS
MIGHTY ROBOTS
MIGHTY VEHICLES

Out of the future and into your dreams... ordinary-looking objects that you change into robots



TRANSFORMERS



(1 thru 7) Masters of the Universe™ Plastic Action Figures 5½ in. ta
For ages 3 years and up

Item	Description	Catalog No.	Wt.	Price
(1)	Battle Armor™ He-Man®	49 N 59807	6 oz	$4.99
(2)	Battle Armor™ Skeletor® and 2 Armor shows dents; touch to repair	49 N 59811	6 oz	4.99
(3)	Clamp™ Pull the record and he spins	49 N 59823	6 oz	4.99
(4)	Kobra Khan™ Press and he sprays mist	49 N 59843	6 oz	4.99
(5)	Webstor™ Master of escape he climbs	49 N 59850	6 oz	4.99
(7)	Mekaneck™ Mechanical neck pops up!	49 N 59864	8 oz	4.99

(8 thru 13) Enter a world where good vs. evil with plastic action toys. For ages 5 and up. Items (8, 9, 11) warranted by Mattel; see page 323

Item	Description	Catalog No.	Shpg. wt.	Price
(8)	Castle Grayskull® has a drawbridge that opens, a working trap door elevator, cannon and 3 weapons. 19x26 inches long	49 N 59857	6 lbs. 1 oz.	$27.99
(9)	Snake Mountain™ sets them; protect an evil world. Demon's jaws move. Secret trap door; real trap; prison. Req. 9 volt battery, sold below	49 N 59843	6 lbs.	42.99
8 and 9	Sold for storage; comes unassembled. Warranted by Mattel; see p. 323			
(10)	Fisto™ assault vehicle has 2 firing blades, rotating eagles. 3½ in. high, 8 in. in diam.	49 N 59848	2 lbs.	$9.99
(11)	Dragon Walker™ moves with a cavernous mouth. 6 wks. 4 in. long. Requires 2 C batteries, sold below	49 N 59816	1 lb. 8 oz.	19.99
(12)	Stinkor™ has rotating laser; rear ramp goes 3¾ in. high	49 N 59820	12 oz.	7.99
(13)	Road Ripper™ warrior vehicle. Pull rope and to make it go 4 in. long	49 N 59840	1 lb.	6.99

49 N 30949—DieHard 9-v. Alkaline Battery. Shpg. wt. 2 oz. Ea. $2.19
DieHard C Alkaline Batteries. Package of 2
49 N 30929—Shipping weight 5 oz. ..... Pkg. $2.19

(14 thru 17) Toys from the world of Blackstar®. Most figures have laser-light action
(15, 17 are imported.) For ages 5 and up

Item	Description	Catalog No.	Shpg. wt.	Price
(14)	Blackstar® Deluxe Castle is the home of Overlord, the enemy. Different levels for play; working gun tower. Folds for storage. 16 wide x 27½ in. high. Assembled	49 N 59968C	4 lbs.	$22.99
(15)	Blackstar Giant Serpent Barkeser Gorgo Overlord Trobbit 2 Alien Demons	49 N 59970	11 oz.	12.99
(16)	Trobbit Bounty Head Space Ship	49 N 59966	1 lb. 8 oz.	9.99
(17)	Warlock Battle Horse Jointed	49 N 59967	1 lb. 5 oz.	8.99

(18) Don't lose those Masters of the Universe and Blackstar figures! Store up to twelve 5½ in. figures in this Deluxe Vinyl Carrying Case
49 N 59748—Shipping weight 4 oz. $6.99

Sears Christmas home with Ship-a-Gift see page 326

Masters of the Universe Toys® Mattel 1983
©Filmation Assoc. 1983

Sears brings you the dream toy of the future...today! Maxx Steele™ is a visitor from the 21st century a fully programmable robot servant and companion that walks, talks and even plays games. With his wireless master controller you can guide him by remote control or program a sequence of actions and activities that he will perform again and again—by himself from memory! Maxx is versatile. He can play music, bring you a snack, or wake you up in the morning. He tells time with his built-in clock and can play "Moon Ball" and "Force Field" against a human. And with his vocabulary of 140 words, he's quite a conversationalist. When his batteries begin to run down, he asks for a recharge. He tells you what operating mode he's in, warns you when you're overloading his programming and even lets you know when he's going to shut down to save power.

Maxx is 24 inches high. His rechargeable battery operates him for about 2 hours on full charge...recharges in 14 hours (charging unit included). He was designed and built in the U.S., and he comes fully assembled. Warranted by Ideal, write for free copy, p. 323. See "N" suffix note, p. 323

DO NOT ORDER BEFORE OCTOBER 1, 1984

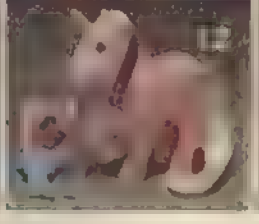
49 N 54581N—Shpg. wt. 34 lbs. $400.00

(1) Command Omni-bot™ by remote control or pre-program his computer and he'll perform from memory. He moves forward and backward, turns right and left, has a manual grasping hand and can carry objects on his detachable tray. You can deliver messages through his built-in microphone or pre-record messages or music to play back on his cassette recorder. Use his built in 7-day digital clock to activate his programming. Omni-bot is 20 inches tall and has a built-in rechargeable battery and charging unit. He operates for about 4 hours on a full charge and takes 18 hours to recharge. Requires 2 "AA" batteries (sold sep., p. 495) to run tape player and clock. Imported. For ages 11 and up.
49 N 54582—Shpg. wt. 10 lbs. $250.00

(2) Ver-bot™ is the loyal remote control robot that responds only to commands given in his master's voice. Through his wireless remote microphone you can order him to perform eight different functions including moving forward and backward; turning right or left; picking up an object and setting it down again...perfect for fetching small objects up to 10 ounces in weight. Always happy to serve, he even smiles on command. 9 inches high, runs on two 9-volt, 4 "AA" batteries (sold sep., p. 495). For ages 7 and up. Imported.
49 N 54574—Shpg. wt. 3 lbs. 5 oz. $60.00

(3) With floor plan in hand, Ding-bot™ charges across the room only to stop, complain, and then change directions after running into an obstacle. This electronic comedian is only 5 inches tall. He runs on one "AA" battery (sold separately, p. 495). Imported. For ages 5 and up.
49 N 54596—Shpg. wt. 1 lb. 3 oz. $10.00

It's a pony world



(1) *New at Sears!* The My Little Pony™ Dream Castle . . . a perfect home for your wonderful little four-legged friends! Set includes Majesty™, the royal unicorn, and Spike™, the pet dragon plus lots of accessories. You can pamper Majesty on her grooming stand. Or, give Spike a ride in the crank-operated basket. Every inch of the castle is accessible — even the tower tops open. Just think of the romantic fantasies you'll experience.
Includes royal cape and crown, 4 pony shoes and shoe box table, chairs, 2 goblets, 2 jumping hoops, flags. Folds, forming a handy carrying case. Plastic. 17x16x14 in. high.
For ages 3 and up.
49 N 13295—Wt. 3 lbs. 8 oz. **$24.99**

(2) *New at Sears!* After a day of hard riding, Sprinkles™ and Duck Soup™ romp around under the My Little Pony™ Waterfall. The rainbow hand-operated pump cascades water into the clam shaped shower. Spa accessories include pony bubbles, comb, curlers, sponge, towel. Plastic. 10x9x15 in. high.
For ages 3 and up.
49 N 13294—Shpg. wt. 2 lbs. **$17.99**

(3) My Little Pony™ Pretty Parlor™ great for pampering precious ponies. You can brush Peachy™ before the mirrors and try ribbons or straw hats in her mane. Twinkles™ the kitty can even ride in the basket. Also includes name tags, bridle, saddle, blanket and bouquet. Plastic. 12x8x[illegible] in. high.
For ages 3 and up.
49 N 13118—Wt. [illegible] 7 oz. **$14.99**

(4 thru 6) *New at Sears!* My Little Pony™ Sea Ponies™ are great for every day play or [illegible]. Nestled in shells are a lovely sea pony, brush, comb, mirror, [illegible] shell. Plastic. 7x5x[illegible] high.
For ages 3 and up.
4 49 N 13[illegible] Wavedancer™
5 49 N 13[illegible] Seaweed™
6 49 N 13[illegible] Seasight™
Shipping weight 8 oz. **$5.99**

(7 thru 12) *New at Sears!* My Little Pony™ Unicorn and Pegasus are glitter with magical fairy dust. Soft manes, tails, legs can be brushed with the shooting star brush. A fantasy story comes with each starting a personal adventure. Also, ribbon scented sticker. 4x1x5 in. high.
For ages 3 and up.
7 49 N 13286—Moondancer™
8 49 N [illegible]—Sunbeam™
9 49 N 13297—Firefly™
10 49 N 13288—Glory™
11 49 N [illegible] Misty™
12 49 N [illegible] Twilight™
Shipping weight 4 oz. **$4.99**

(13 thru 18) *New at Sears!* My Little Pony™ Pony Wear™ lets you dress-up your favorite many items.
13 49 N [illegible]255—Pony Royal™
14 49 N [illegible] Party™
15 49 N [illegible] Skates™
16 49 N [illegible] Fringe Frolic™
17 49 N [illegible]4—Best of the West™
18 49 N 13251—Sweet Dreams®
Shipping weight 8 oz. **$2.99**

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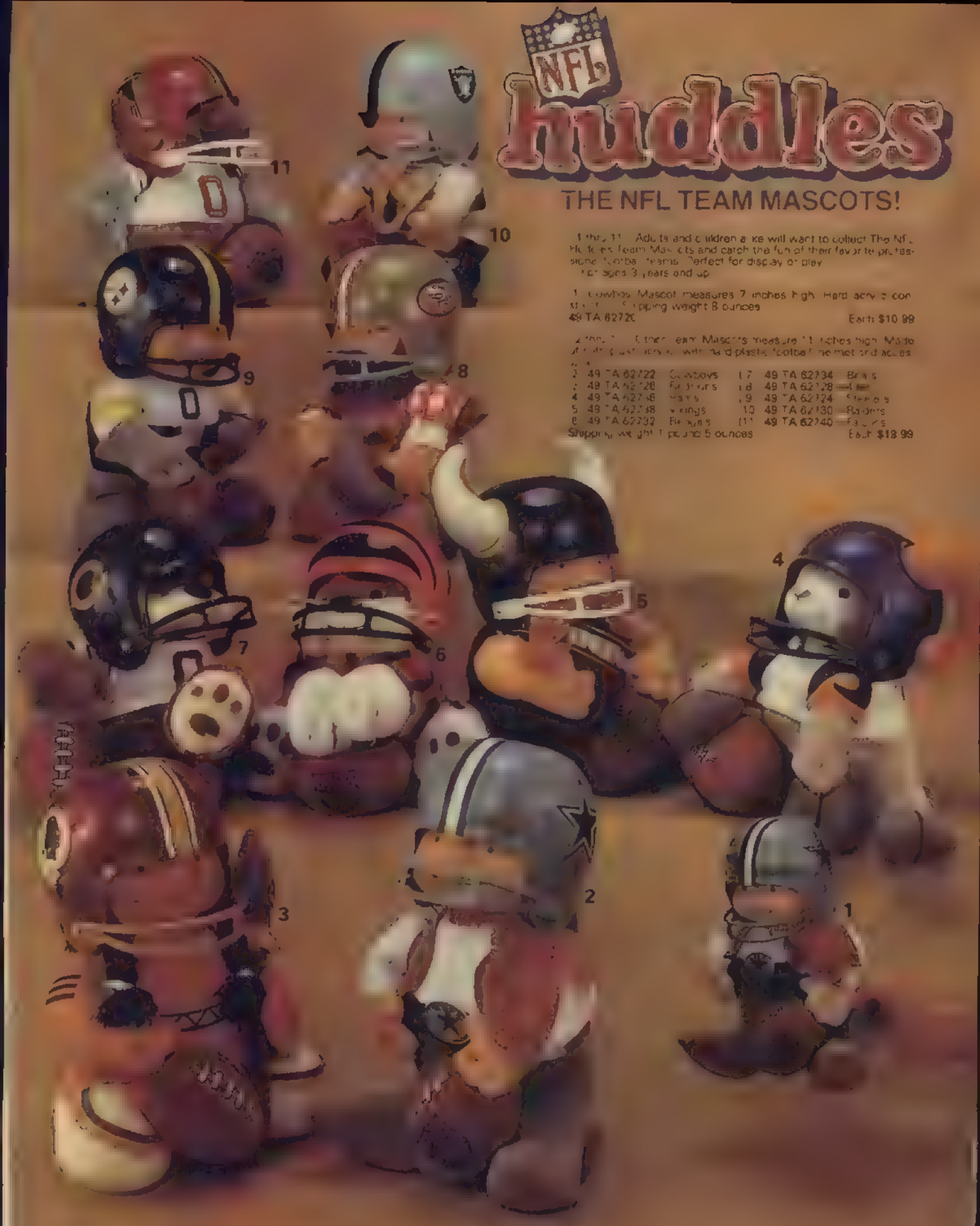

1 thru 11 Adults and children alike will want to collect The NFL Huddles Team Mascots and catch the fun of their favorite professional football teams. Perfect for display or play.
For ages 3 years and up.

1 Cowboy Mascot measures 7 inches high. Hard acrylic construction. Shipping weight 8 ounces.
49 TA 62726 Each $10.99

2 thru 11 Other team Mascots measure 11 inches high. Made of durable polyresin with a plastic football helmet and accessories.

2	49 TA 62722	Cowboys	7	49 TA 62734	Bears
3	49 TA 62720	49ers	8	49 TA 62728	Lions
4	49 TA 62746	Giants	9	49 TA 62724	Steelers
5	49 TA 62738	Vikings	10	49 TA 62730	Raiders
6	49 TA 62732	Redskins	11	49 TA 62740	Eagles

Shipping weight 1 pound 5 ounces. Each $18.99

(1 thru 3) Join Flash Fighters 2000's™ epic battle between the Metro-Center Flash Fighters and Anti-Metro Guerilla Dark Seekers as weapons burst into firepower excitement! All vehicles fire caps. 144 included, come with comic book and 1 Flash Fighter Assault Vehicle, Torque Shifter (2 colors with 2 seats, Plastic and steel. Fairly assembled. For ages 5 years and up.

(1) Hide behind the high walls of the Flash Force Base and fire Assault Vehicles from the automatic launcher. Missile firing gun on top rotates 180°. Service elevator raises and lowers traveling boom and storage space. 9¼x19x13½ in.
49 TA 57021—Shpg. wt. 2 lbs. Set **$19.99**

(2) 360° swivel turret guns protect the Cyclone Chopper as it safely delivers a load of new supplies to the battle zone. Trigger operated controls set rotors spinning, fires blast caps and launches flash fighters. 6¾x17¾x17¾ in.
49 TA 57023—Shpg. wt. 1 lb. 3 oz. Set **$19.99**

(3) Rumble into action on Dark Seekers Battle Van's six fat wheels and scan for stray Flash Fighters. Lock periscope onto target and fire by pressing top. Turret turns 360° for devastating power. 6x16½x12 in.
49 TA 57025—Shpg. wt. 1 lb. 5 oz. **$19.99**

(4 and 5) Cruise your harmless-looking Switch Force™ vehicle down unsuspecting city streets. Flash compartment at button and it turns into an armored fighting machine. 5¼x3⅜x3 in. Plastic and metal. Requires 1 AA battery, sold on page 601. Assembled. For ages 4 years and up.
(4) 49 TA 54597—Corvette
(5) 49 TA 54594—Firebird
Shipping weight 6 oz. Each **$8.99**

(6) Play with the Hot Wheels® Freight Yard almost anywhere. Folds into portable case and easily assembles. Includes switching gates, crane to load piggy backs, Round House, 9 pcs. of track and 4 cars with engine, caboose. 56¾x16½ in. Plastic. Warranted by Mattel. Write for free copy, see page 2. For ages 4 years and up.
49 TA 57029C—Wt. 4 lbs. **$39.99**

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Odyssey 2...the key is the keyboard

1

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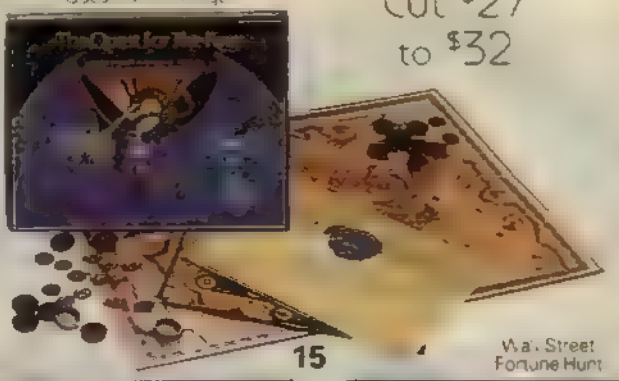
Cut $27 to $32



15

Quest for the Rings

Wall Street Fortune Hunt

Save $18

Conquest Of The World

16

17

Cut $14 to $25

Armored Encounter Sub Chase 5

3

4

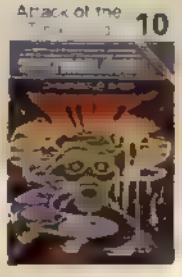
Pick Axe Pete 6

Freedom Fighter 7

Monkeyshines 8

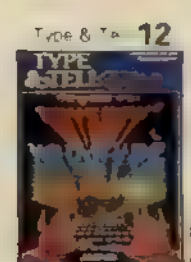
K.C.'s Krazy Chase 9

Attack of the Time Lord 10



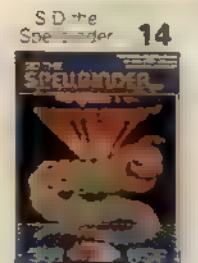
Smithereens 11

Type & Tell 12



Nimble Numbers NED 13

S.D. the Speller 14



596
597

1 Console combines the strategic scheming of a board game with the excitement of a video game! 49 keys are sealed and wipe-clean. Two hand held controllers for better action each. One cartridge included has 5 different games: Soccer, Shoot-Out, Speedway and Crypto-Logic. Three additional cartridges are also included: Alien Invaders, Football and Armored Encounter/Sub Chase. Plugs into any TV. Plastic console case. Voice module (2) not included. UL listed for 110–120 volts, 60 Hz, AC. Warranted by Odyssey. Write for free copy, see page 323. Save $18 over separate prices for console and three cartridges. Console price based on 1983 Christmas Book, page 602. Cartridge prices based on savings below, total $87.96.
49 N 75878—Wt. 10 lbs. 12 oz. ... Set $49.96
49 N 75457—AC Adapter. Wt. 9 oz. ... 6.99

2 Voice Synthesis Module ... when used with talking cartridges will produce clear, realistic voices that react to game situations. Plastic case has 4 cartridge receptacles, 1 for each included cartridge (excepting Type & Tell). Includes Numbers NED and S.D. the Speller. Warranted by Odyssey. Write for free copy, see pg. 323. Save $4 ... when separate prices for 1 module and 3 cartridges. Separate prices total $99.96 ... see page 602 Christmas Book. Shipping weight 6 pounds.
49 N 75919—Shipping with titles ... Set $39.96

3 thru 14 Cartridges are warranted by Odyssey. Write for free copy, see page 323. Reduced from Spring 1983 Big Book page 685 and Christmas 1983 Christmas Book page 602. Shipping weight each 5 ounces.

3) Football. Anything goes! 2 players.
49 N 75910 ... Was $19.99 Now $5.99

Baseball. Word series action. 2 players.
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Showdown at 2 001 A.D.* Shoot 'em up action with ricocheting bullets. 1 or 2 players.
49 N 75912 ... Was $19.99 Now $5.99

(4) Alien Invaders. Destroy the enemy before they land on earth. 1 player.
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Invaders from Hyperspace* Flying saucers try to destroy you! 1 or 2 players.
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5 Armored Encounter/Sub Chase. Realistic battle series of action. 2 players.
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Blockbuster Breakdown* 2 dazzling games ... paddle to bust the blocks. 1 or 2 players.
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49 N 75919 ... Was $19.99 Now $5.99

Computer Golf* Challenge 3-hole par 36 course. 1 to 4 players.
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6) Pick Axe Pete. Climb ladders to find treasure. 1 or more players.
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UFO* You protect earth from a sinister invasion of UFOs. 1 or more players.
49 N 75971 ... Was $29.99 Now $9.99

9 K.C.'s Krazy Chase! Run for your life in a maze. 1 or more players.
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10 Barnum's Acrobat** One acrobat jumps ... the grabs for points. 1 or 2 players.
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(10) Attack of the Time Lord! You're the ... vader, slay Time Lord. 1 or 2 players.
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(11) Smithereens!* Catapult boulders or enemy castle and smash it to bits. 2 players.
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Kool Bees** ... can stop the swarm. 1 or more players.
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12 Type & Tell. A speaking electronic blackboard. 72-character voice synthesis program.
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(13) Nimble Numbers NED!* Teach math ... and reward players. 3 activities.
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(14) S.D. the Speller! Spell your way, to rewards of ... gal practice.
49 N 75975 ... Was $29.99 Now $9.99

(15 thru 17) Master Strategy Series Games. Include cartridge, gameboard and player tokens. Warranted by Odyssey. Write for free copy, see p. 323. (15) reduced from 1984 Christmas Book p. 602. (16 and 17) reduced from 1983 Spring Big Book page 685. Shipping wt. 1 lb. 4 oz. each.

15 Quest for the Rings. Work to recover the ... rings. 2 to 5 players.
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†Enhanced sounds ... will use Voice module 2. *Not shown.

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Save $2

when you buy [illegible] with the Golden Dragon [illegible]

1 Only at Sears. We are proud to present our Dungeons & Dragons® fans and covers fantasy artist Ed [illegible] Dungeons & Dragons® Poster of stunning beauty! Created [illegible], the famous painter Elmore, this poster is a must for setting the proper mood for playing Dungeons & Dragons®. . . or just sheer enjoyment. [illegible] poster is 24x36 in. [illegible]
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2 As your adventuring party explores the different levels of the dungeon, they will encounter the Golden Dragon, one of the mightiest beasts that lives within! But beware: magic is the only weapon that will save you! We believe this dragon sculpt is the finest, most exciting sculpted metal model ever created. The proof lies in the exquisite detail and craftsmanship. This dragon is essential for role-playing games like Dungeons & Dragons® 9x7x2 inches. Some assembly and painting is required. Paint and glue not included.
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7 Dungeons & Dragons® Basic Set with simplified rules. For 3 or more players.
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For ages 10 years and up.
49 N 61223—Shpg. wt. 1 lb. 6 oz. Set **$9.99**

Send Christmas home with Sears see p. 326

8 Dungeons & Dragons® Companion Set for new ventures and game play. For 3 or more players.
For ages [illegible] years and up.
49 N 61920—Wt. 1 lb. 6 oz. ..... Set **$9.99**

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(1) This Radio features both AM and FM capabilities and will clip to your belt. Easy-to-use dial and adjustable headset mean you'll hardly ever want to take the radio off! Radio will work with or without headset, you decide who listens. 2¾x1½x6 in. high.
Shipping weight 11 oz.
49 N 66075 .....

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(4) You're on the air! This Wire-less Microphone transmits your voice through any AM radio. Solid state. Meets all FCC requirements. Plastic case. Flexible antenna. Imported. Requires one 9-v battery, sold separately below.
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Price alone $7.99
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DieHard 9-volt Alkaline Battery
49 N 30949—Shpg. wt. 2 oz. .....Ea. $2.19

(5) Anytime is showtime with this new Show 'n Tell® Phono-Viewer™. Now kids can watch their favorite stories on a clear 7⅛ in. diagonal, wide-angle screen or switch to wall projection so everyone can enjoy the show. Plays 33⅓ and 45 rpm records. Lockable tonearm (weight) one arm with retractable sapphire needle helps minimize scratching. Solid-state circuitry with light saver on/off switch means bulb won't light up until filmstrip is inserted, turns off automatically at end of story. Volume, focus controls. Extra bulb and instructions incl. UL listed transformer, 120-v, 60-Hz AC. Extra-long 7-ft. cord stores in back. Plastic and metal unit is 13x9x7 in. high. Warranted by mfr. Write for free copy, see p. 323. $54.99 after $10.00 CBS Toys/Child Guidance rebate, see p. 498 for details. Shipping weight 8 pounds 8 ounces.
For ages 3½ years and older
49 N 66686—Full price $64.99

Film and Record Sets for Show 'n Tell® Phono-Viewer™. Each set contains 3 film and 45 rpm record story programs, approx. 4 minutes each.

49 N 66687—The Night Before Christmas, The Nativity, A Christmas Carol

49 N 66688—The Berenstain Bears Vacation, Bears Go to the Doctor, Bears go to School

49 N 66689—Three Little Pigs, Mickey Mouse as Jack and the Bean Stalk, Mickey Mouse in Fantasia

49 N 66691—Mickey's Treasure Hunt, Donald Duck as the Zoo Keeper, Minnie Mouse in the Surprise Birthday Party

49 N 66322—2 Flintstones stories, Scooby Doo

49 N 66323—3 Alvin and the Chipmunks stories
Shipping weight each 10 oz.
Each .....$9.49, 2 or more ea. $8.99

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(6 and 7) View-Master Gift Sets with your favorite heroes from this world and the world of cartoons including Michael Jackson and Masters of the Universe. Included standard 3-D viewer and 3 adventure reels with 21 pictures. No batteries needed.

(6) Masters of The Universe Set
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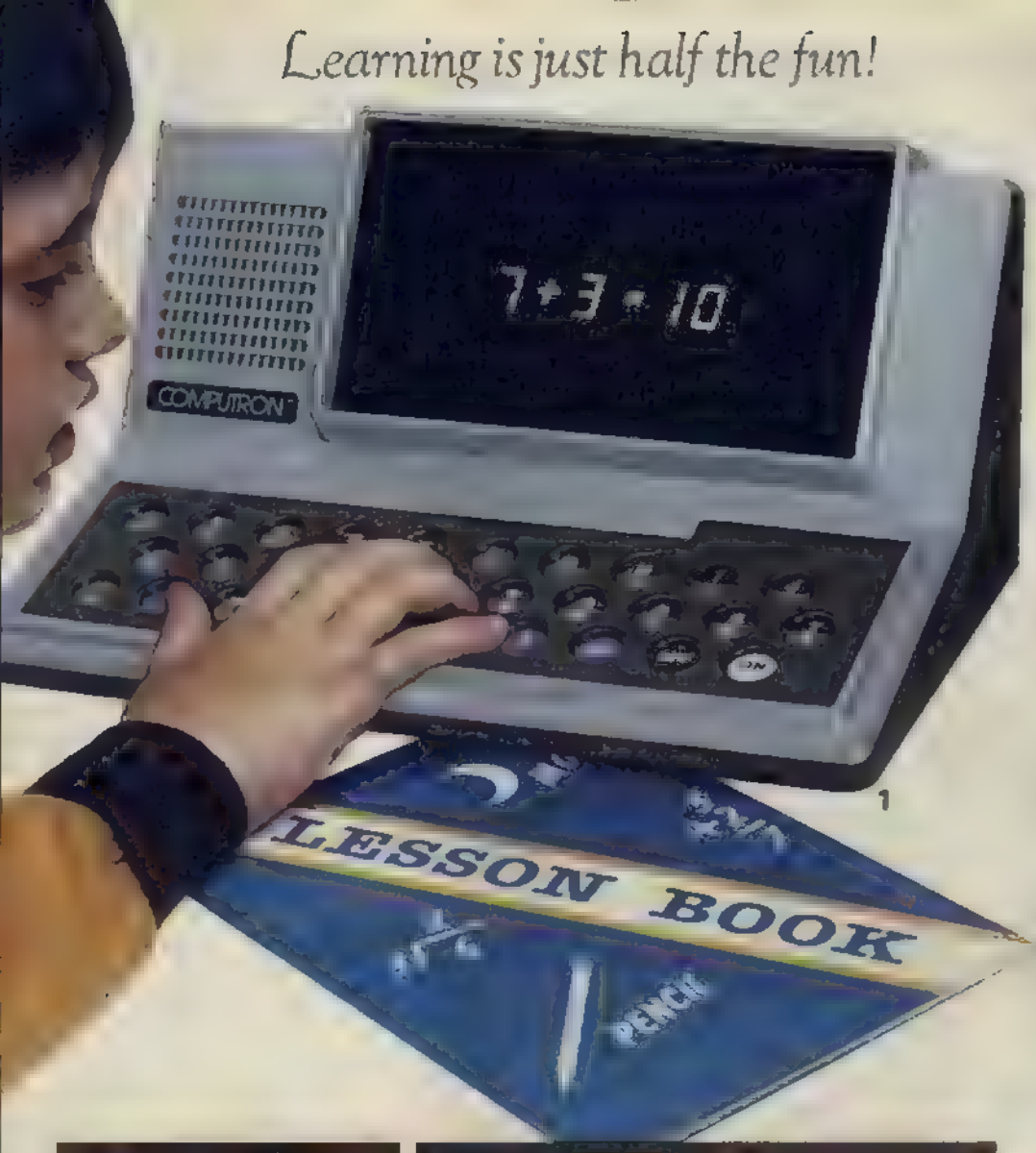
Learning is just half the fun!



1

$39.99 (1) The Computron™, with computer styling, is an educational toy that is programmed for 10 entertaining and challenging games to make learning fun. 25,000 pre-programmed problems in the workbook (incl.) develop skills in math, spelling, words, numbers, object [illegible] and problem-solving logic. The touch-sensitive keyboard coordinates with an LED-digital display to respond quickly to each entry. And a correct answer wins a musical salute!

The Computron™ also provides a full musical scale to promote musical note recognition. Plus, your child can create and program his own songs or enjoy the tunes in the workbook. Great fun for 1 or 2 players. Automatic shut-off after a few minutes of non-use saves battery life. Requires 6 "C" batteries (not included), sold below.

For ages 5 to 12 years.

49 N 17702—Shpg. wt. 3 lbs. **$39.99**

(2) Sharpen math skills on 4 levels with the Little Professor™ II. Your child gets 2 chances to correctly answer each question displayed on the screen before the answer is given. The screen displays the problem and in the right-hand corner, the "professor's" face. Correct answers receive a smile from the professor and a star at the bottom of the screen. After 5 questions, the screen automatically clears and follows with a count of the number of correct and incorrect answers given in the set. Then another set of problems begins and the game moves on.

The learning is fast and fun. The workbook included provides additional games and activities. Automatically shuts-off after approximately 2 minutes of non-use. Requires 2 "AA" batteries (not incl.), sold separately below. Warranted by Texas Instruments; write for free copy; see page 323.

For ages 5 and up.

49 N 17604—Shpg. wt. 9 oz. [illegible]

(3) The Quiz Wiz™ tests your knowledge on a variety of areas. 1001 questions on almost every subject are posed. Lights and sound effects respond to tell you if answer given was right or wrong. Play it alone or with friends. Additional quiz book and cartridge sets sold below. Requires one 9-v. battery, not incl., sold below. Warranted by Coleco; write for free copy; see pg. 323.

For ages 8 years to adult.

49 N 17675—Shpg. wt. 1 lb. 6 oz. ..**$22.99**

Additional Quiz Wiz Cartridge and Quiz Book Sets. Each set has 1001 questions with multiple choice answers.

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49N 7679—Movies and TV

49N 7681—Ripley's Believe It or Not!®

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Shipping weight, each, 8 ounces. Each **$6.49**

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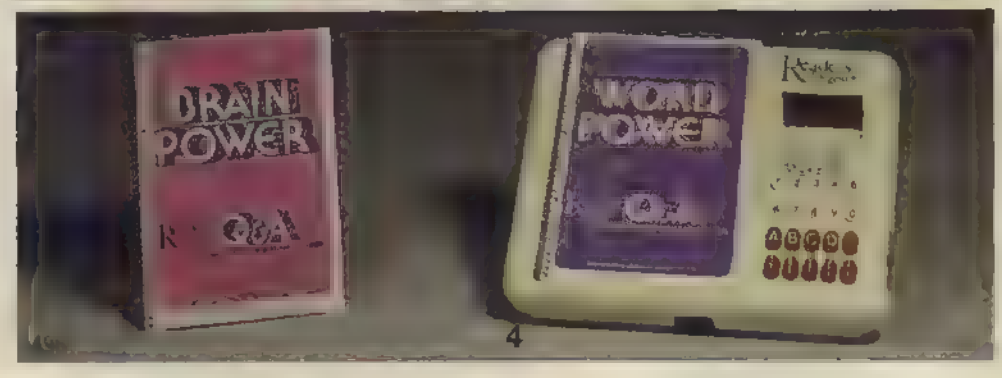
2

3

(4) Reader's Digest® "Q & A" Computer Question & Answer Game quizzes you on a variety of topics. Includes 2 programmed games, each holding over 3,000 questions in 156 separate exams to test your wits in sports, music, history, entertainment and more categories. The element of chance is added too—extra points scored by random flashing lights heighten the fun. Play it alone or compete with friends. Additional games sold below. Uses one 9-volt battery, not incl., sold below. Warranted by Selchow & Righter; write for free copy, see page 323.

For ages 8 years to adult.

49 N 17661—Wt. 2 lbs. 2 oz. **$39.99**



4

Additional Games programmed for use with Reader's Digest® Q & A Computer Game (4) above. Each has over 1,200 questions arranged in 61 separate quizzes. Shpg. wt. 5 oz. each.

49 N 17662—The Bible **$3.99**

49 N 17664—Word Power 3.99

49 N 17666—College Prep Math 3.99

49 N 17667—College Prep Reading 3.99

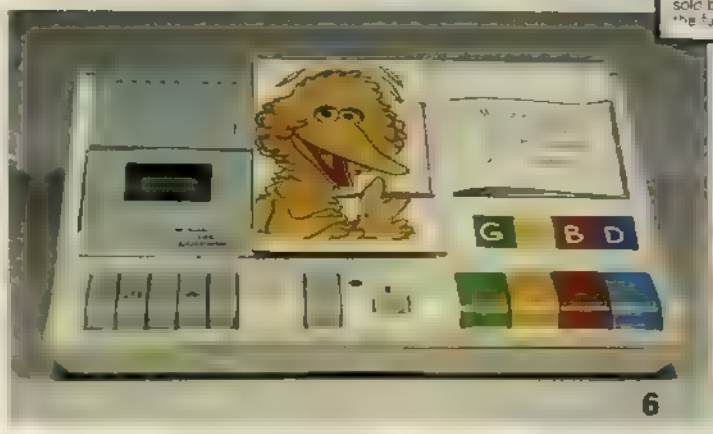
49 N 17665—Jr. Word Power 3.99

49 N 17663—Science Discoveries 3.99

DieHard Alkaline Batteries

Size	Pkg. of	Catalog Number	Shpg. Wt.	Pkg.
AA	2	49 N [illegible]	4 oz.	$1.79
C	2	49 N [illegible]	5 oz.	2.19
9-volt	1	49 N [illegible]	3 oz.	2.19

Add-on Module Sets sold below continue the fun and learning



$24.99 (1) The Quiz-a-Tron uses lights and sounds to stimulate your child's interest. Skills needed to understand math, logic, words and shapes are developed as your child "plays" the games. A musical salute responds to correct answers. 3 speed settings. Additional booklets sold below continue the learning. Plastic. Imported. Uses 8 "AA" batt. (not incl.), sold below, right.
For ages 4 to 8 years
49 N 1779—Shpg. wt. 1 lb. 12 oz. $24.99

Extra Question Booklets. Each 38-page booklet has 380 questions to challenge children 4 to 8 yrs.
49N17796-Level I, ages 4–5 yrs. Wt. 8 oz. .. $2.99
49N17797-Level II, ages 5–6 yrs. Wt. 8 oz. . 2.99
49N17798-Level III, ages 6–7 yrs. Wt. 8 oz. . 2.99
49N17799-Level IV, ages 7–8 yrs. Wt. 8 oz. 2.99

Save $2 on Extra Question Booklet Set with Level I thru Level IV above. Sep. prices total $11.96.
49 N 17789—Shpg. wt. 2 lbs. $9.96

(2) Teach your preschooler colors, common objects and shapes with Touch & Tell. Your child simply presses the picture panel and the game voice names the picture. Then it names a picture for your child to locate. It's fun and educational! Incl. 2 double-sided picture panels. Plastic. Uses 2 "D" batt. (not incl.), sold below, right. Warranted by Texas Instruments, write for free copy, see pg. 323.
For ages 2 to 5 years
49 N 17801—Shpg. wt. 2 lbs. $29.99

Extra Learning Modules with picture overlays for (2)

Module Types	Catalog Number
E.T.®—Let's you hear E.T.'s voice! 8 picture panels feature scenes from movie	49 N 17846
Alphabet Fun—Helps identify letters and words beginning with those letters	49 N 17849
Number Fun—Identify numbers and quantities	49 N 17851
Animal Kingdom—Helps with animal names and the sounds they make	49 N 17853
All About Me—Helps preschoolers discover themselves	49 N 17855
World of Transportation—All about buses, trains, planes & more	49 N 17857
[illegible]	49 N 17859

Shipping weight each 10 ounces. Each $12.99

(3) Introduce your child to a world of knowledge with the Teach & Learn Computer™. A friendly voice recording and visual aids develop skills in reading, vocabulary, math and other areas. Inc. 2 discs, 6 overlays. Addl. learning modules expand the learning and fun; sold sep. at top of next column. Uses 2 "D" alkaline batt. and 9-volt batt. (not incl.), sold at right. Warranted by Mattel, write for free copy, pg. 323. $54.99 after Mattel rebate, see pg. 498.
For ages 3 to 8 years
49 N 17704—Wt. 1 lb. 8 oz. ..... Full Price $59.99

Additional Learning Modules for (3). Incl. 3 discs, 6 panel overlays for each.

Learning Volume	Catalog Number	Age
Sesame Street®—Games	49 N 17705	3, 4, 5
Sesame Street®—Learning about Sounds and Places	49 N 17707	3, 4, 5
Reading Readiness® I	49 N 17711	3, 4
Learning About People and Animals	49 N 17715	3, 4
Stories and Rhymes	49 N 17717	3, 4
Learning About my World™	49 N 17719	3, 4
Learning About Sounds	49 N 17721	3, 4
Reading Readiness® II	49 N 17722	5, 6
Basic Learning™ II	49 N 17723	5, 6
Games and Mazes™	49 N 17724	5, 6

Shipping weight 8 ounces. Each $12.99
**Trademark Children's Television Workshop

(4) Alphie II teaches children lessons in math, spelling, colors and problem solving. He'll provide music for a sing-along or a game of musical chairs. 4 two-sided activity cards provide a variety of things to do. Add-on activity sets sold below. Automatically shuts off to save power. Requires 4 "AA" batteries (not included), sold at right. Warranted by Playskool, write for free copy, see page 323.
For ages 3 to 8 years
49 N 17631—Shpg. wt. 2 lbs. 8 oz. $24.99

(5) Alphie II Activity Sets provide 2 learning activities geared to different lessons at overlapping age levels so the fun, games and lessons go on and on. Each includes 4 double-sided learning cards, a double-sided gameboard and playing pieces. You get "Basic Numbers & Shapes" for ages 3 to 5 years and "Get Ready to Read" for ages 4 to 8 years.
49 N 17632—Shpg. wt. 1 lb. $8.99

(6) Talk 'n Play Cassette Player/Recorder Learning Set teaches as your child participates in games and songs. A pre-recorded friendly voice coordinates with the workbook to ask a question, your child responds using the brightly colored buttons. "Can you find your way to Sesame St.®" program incl. Add-on programs are sold below. Req. 4 "D" batt., (not inc.) sold at right. Warranted by CBS Toys, write for free copy, see page 323.
Shipping weight 5 pounds 8 ounces
For ages 3½ years and up
49 N 17752 ..... $49.99

Additional software programs for Talk 'n Play (6 above). Shpg. wt. 6 oz. ea.
49 N 17753—Sesame St.® Fairy Tales $7.99
49 N 17754—Visit with Mother Goose 7.99
49 N 17756—Baby Animals 7.99
49 N 17759—The Reading Robot 7.99

(7, 8 and 10) Texas Instruments electronic learning toys help teach basic learning skills in a fun way. Req. 4 "C" batt., or AC adapter, sold sep. below. Plastic. Warranted by TI, write for free copy, see pg. 323. (7, 10) available in braille.

(7) Speak & Math covers 100,000 problems on tables, decimals and more. Workbook incl. Wt. 1 lb. 14 oz.
For ages 5 to 12 years.
49 N 17605 ..... $39.99
49 N 17606—Braille Speak and Math 39.99

(8) Speak and Read develops word recognition, pronunciation and vocabulary. Activity book inc.
49 N 17816—Shpg. wt. 1 lb. 12 oz. $39.99

(9) Additional Learning Modules for (8). Incl. plug-in module and booklet. Shpg. wt. 4 oz. each.

Module Type	Cat. No.	Grade	Price
Dog on a Log—rhyming words, plural endings	49 N 17822	1	$12.99
On Track—consonant blends	49 N 17823	1	12.99
Who's Who at the Zoo—contractions	49 N 17821	2	12.99
A Seal that could Fly—comparatives (long, longer, etc.)	49 N 17817	2	12.99
Third Circle—"r" controlled vowels (i.e. "ir" in circle)	49 N 17841	2	12.99
Millionth Knight—letter/sound relationships (eg. "kn" in knee)	49 N 17842	3	12.99

(10) Speak and Spell, 4 skill levels, workbook.
For ages 6 and up. Shpg. wt. 1 lb. 9 oz.
49 N 17814 ..... $39.99
49 N 17833—Braille 39.99

Additional Learning Modules for (10) (not shown). Incl. plug-in module and lesson booklet. Wt. 4 oz. each.

Module Type	Cat. No.	Grade	Price
Basic Builders—helps sound out words	49 N 17837	2, 3	$12.99
Vowel Power—helps vowel patterns	49 N 17838	2, 3, 4	12.99
Super Stumpers™—helps with problem words	49 N 17839	4, 5, 6	12.99
Mighty Verbs—helps verb tenses	49 N 17843	4, 5, 6	12.99
Super Super Stumpers—prepares for high school	49 N 17844	7, 8	12.99
Power Vowels—helps with difficult vowel combinations	49 N 17845	6, 7, 8	[illegible]

AC Power Adapter for (7, 8, 10 above (not shown).
49 N 17806—Shpg. wt. 1 lb. 8 oz. $6.79

DieHard Alkaline Batteries

Size	Pkg.	Catalog No.	Wt.	Price
AA	2	49 N 3C905	2 oz.	$1.79
C	2	49 N 3C928	5 oz.	2.19
D	2	49 N 3C939	10 oz.	2.19
9-V	1	49 N 3C949	2 oz.	2.19

(1 thru 8) Tame the action-packed world of Starriors™ and rule over chaos. Ultimate battle machines, transformers and action figure parts are interchangeable. Starriors Mojave™ comic book incl. Molded plastic. Disassembled, instructions included. For ages 4 years and up.

(1) Unfold sides of the Starriors Armored Battle Station and it becomes a repair station turntable with moving repair arm and storage compartments.
49 TA 59710—Shipping weight 1 lb. 13 oz. $11.99

(2) Cricket remote control advances Starriors Cosmuttor into battle. Flashing eyes and sparks when he fires. Requires 4 batteries, not included. Ages 5 and up.
49 TA 59709 Shipping weight 1 lb. 3 oz. $19.99
49 TA 30929- C Batteries. Pkg. of 4. Wt. 5 oz. Pkg. 2.19

(3 and 4) Wind up Starrior Warstor robots and active weapons on chests move. Set of 2.
(3) 49 TA 59715—Good Warstors. Wt. 1 lb. 1 oz. Set $9.99
(4) 49 TA 59713—Evil Warstors. Wt. 1 lb. 1 oz. Set 9.99

(5 and 6) High-speed Starrior Rammers pull back and burst into action. Shipping weight 7 ounces.
(5) 49 TA 59708—Good Rammers. Set $7.99
(6) 49 TA 59725—Evil Rammers. Set 7.99

(7 and 8) Flip up the legs on Starrior Starzor or Starrunner and transform power converters from walking to high-speed pursuit. Shipping weight 1 lb. 1 oz.
(7) 49 TA 59711—Good Starriors Starzor. $7.99
(8) 49 TA 59717—Evil Starriors Starrunner. 7.99

(9 thru 16) Enter the world of Mantech™ interchangeable robot systems and make hundreds of new and unusual creations. All parts from vehicles and robots are mixable. Each comes with complete history of origin. Molded plastic. For ages 5 years and up.

(9) Position your robots on the Mantech Battle Station Laser Turret to annihilate enemies with its 2" weapons.
49 TA 59723—Shpg. Wt. 7 lbs. 3 oz. $26.99

(10 thru 15) Mantech Robots have weapons and gear.
(10) 49TA59720-Acquatech (13) 49TA59735-Phoenitech
(11) 49TA59795-Lasertech (14) 49TA59761-Scorpitech
(12) 49TA59731-Terratech (15) 49TA59733-Megatech
Shipping weight 9 ounces. Ea. $6.99

(16) Fly robot scout into action with the Mantech S.A. battle vehicle. Interchangeable parts lets it change into dragon, power cannon or double turret tank.
49 TA 59721—Shipping weight 1 lb. 3 oz. $15.99

Learning is just half the fun with the Mickey Mouse TalkBack™ Talking Computer

(1) TalkBack™ is a delightful, talking machine for children that tells stories, teaches reading or math, explores history, science and travel . . . even cracks jokes. Kids listen to the specially-coded tape program that includes music and sound effects, read along in the colorfully-illustrated book and respond by pushing answer buttons. Then, Mickey Mouse* tells if answers were right or wrong.
TalkBack™ comes with 40-min. tape/book program, "Mickey's Know-It-All Quiz" (other programs sold below). Controls incl.: answer buttons, volume, Rewind, Fast Forward, Play, Stop/Eject. Plays any tape cassette. 12¼x9½x9½ in. high. Uses 6 "C" batteries (not incl., sold on page 602). For ages 3 to 10 years.
49 TA 17761—Shipping weight 6 lbs. **$49.99**

(2 thru 4) TalkBack™ Programs come with 1 specially-coded 40-min. cassette tape that incl. music and sound effects PLUS a full-color paperback activity book with riddles, games, puzzles . . . all your favorite Disney* characters.
(2) "Alphabet Magic" teaches preschoolers to recognize the shapes of capitals and small letters.
49 TA 17762—Shipping weight 8 oz. **$11.99**
(3) "Before It All You Can" teaches historical facts.
49 TA 17765—Shipping weight 8 oz. **$11.99**
(4) "Beginning To Read" teaches how letters represent sounds.
49 TA 17763—Shipping weight 8 oz. **$11.99**
"Counting Carnival" (not shown) teaches counting from 1 to 10 and recognize circles, triangles, squares.
49 TA 17764—Shipping weight 8 oz. **$11.99**
"The Mouse Was There July 4, 1776" (not shown) teaches about the Declaration of Independence.
49 TA 17766—Shipping weight 8 oz. **$11.99**
"Space Games" (not shown) contains imaginative games played in a space age setting.
49 TA 17767—Shipping weight 8 oz. **$11.99**

(5 thru 7) Coleco Table Top Arcades are self-contained units with built-in game displays. Plastic. 7¾x6¼x8¼ in. high. Each uses 4 "C" batteries (not incl.) sold on p. 602, or adapter (not incl.) sold below. Warr. by Coleco. Write for free copy, see p. 4. *Were $44.99 in our 1984 Toys Specialog, p. 594.* $24.99 after rebate — details below. Ages 8 and up.
(5) Ms. Pac-Man™ has 2 game variations, 8 complex mazes plus 2 skill levels. Play against the computer or a friend. Special fruit bonuses for extra challenge.
49 TA 65125—Shpg. wt. 2 lbs. . . . . **Full price $34.99**
(6) Donkey Kong™ has 3 games in 1, each an entirely different situation. The higher you score, the harder the game.
49 TA 65117—Shpg. wt. 2 lbs. . . . . **Full price $34.99**
(7) Pac-Man™ gives you 3 games in one. Play against the computer, friend or play timed challenge, Eat & Run.
49 TA 65115—Shpg. wt. 2 lbs. . . . . **Full price $34.99**
Adapter for (5 thru 7) (not shown). UL listed for 110-120 volts, 60-Hz AC.
49 TA 65122—Shipping weight 8 oz. **$9.99**

HOW TO GET COLECO REBATE ON TABLE TOP ARCADES: (1) cut stock number from box, (2) attach copy of dated sales receipt, (3) include self-addressed, stamped envelope (4) on separate sheet of paper print your name, address, zip code, item name and rebate amount. Mail all 4 items to: Coleco Rebate Offer, P.O. Box 2001, Berlin, CT 06038. Rebate item must be purchased before 1/31/85. request must be postmarked before 2/15/85. Allow 8 to 10 weeks for receipt of rebate check. Limit one rebate check per toy per household. Offer void where prohibited.

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NEXRAD. It will give us an extra 18 lifesaving minutes.

Every year tornadoes, thunderstorms, flash floods, and other major weather disturbances in the U.S. take an average of 618 lives and cause $9 billion in property damage. These losses would be cut if the warning time, often less than 5 minutes for tornadoes, could be increased.

NEXRAD, the Next Generation Weather Radar, will increase tornado warning time up to a full 20 minutes. It will also provide the National Weather Service, the Federal Aviation Administration and the U.S. Air Force with improved warning on the approach of other hazardous weather.

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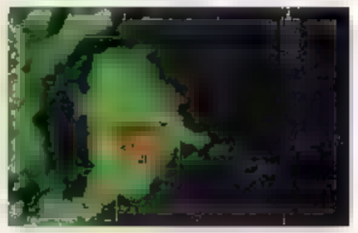
By using an S-band Doppler radar, NEXRAD will be able to measure the radial velocity of a storm's wind and any associated wind shear. A storm's movement can be tracked and its intensity, impact and precipitation accurately predicted right down to county level. This will provide early warning and valuable information for those involved in water resource management and flood control.

Fundamental to our work on NEXRAD are more than 30 years' experience in weather radar systems and our pioneering applications of Doppler radar. It's a further demonstration that at Raytheon, quality starts with fundamentals.

For more information on NEXRAD, please write to Raytheon Company, Government Marketing, 141 Spring Street, Lexington, MA 02173.

NEXRAD display graphics will be color-coded according to wind speed and storm severity.



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Ronald Reagan, 1985
in a speech to the National Space

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Spacecom is responsible for systems engineering, integration, testing, and development of the operations control center, as well as prime contractor and program manager for the CSOC communications segment contract.

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We're making great progress in space and ground station communications technology, and the thrill of helping to make a safer world is still with us. Developing and using this technology to make ours a safer world is going to occupy us all for quite some time.

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1985, Space Communications Company

TI's HARM missile keeps Air Force pilots out of harm's way

When you scramble off that runway in your F-4G Wild Weasel it's nice to know that those HARM missiles under your wing can truly make you the hunter rather than the hunted.

With HARM's long range, high speed, broad frequency coverage, and onboard software adaptability against existing and future radar threats, the tactical potential of the missile is limited only by the imagination.

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TI, as Weapon System Integrator for this joint U.S. Navy/U.S. Air Force program, is in full-scale production and is delivering missiles to F-4G Wild Weasel squadrons where HARM has proven extraordinarily reliable in the completion of defense suppression missions.

Texas Instruments is proud of its long association with the U.S. Air Force and proud to be able to add this highly reliable defense suppression weapon to the Air Force Inventory.

TEXAS INSTRUMENTS

27-3455

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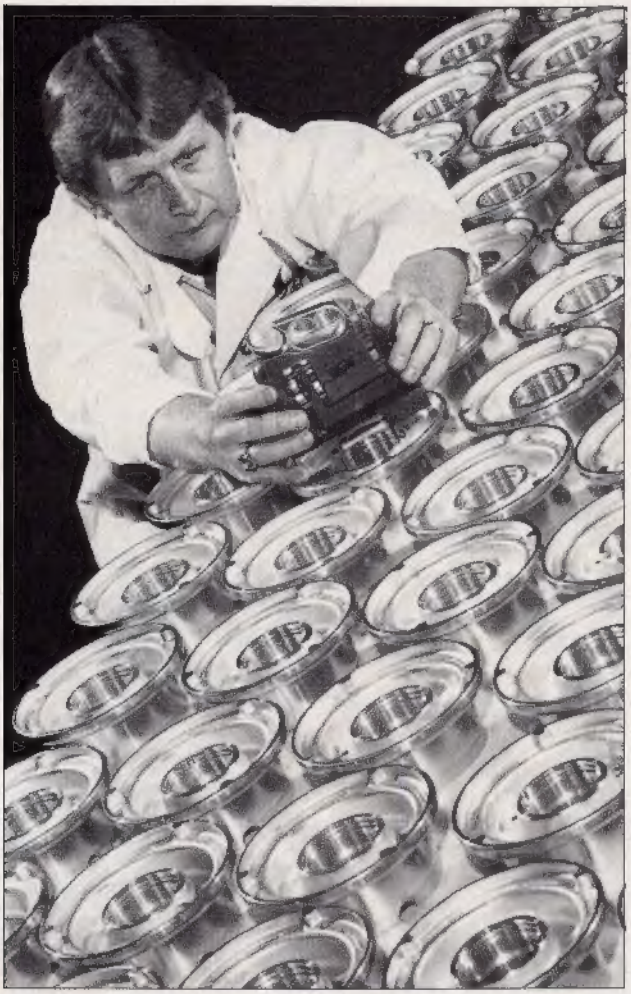
Kenneth F. Stetson, an aerospace engineer in the Flight Dynamics Laboratory, Wright-Patterson AFB, Ohio, has received FDL's highest honor, the General Benjamin D. Foulois Award, for outstanding research and development accomplishment in his work on the effects of hypersonic speeds on boundary layer stability.



Dozens of aluminum wheels for Kaman Seasprite helicopters are checked within tolerances before leaving the factory at Goodyear Aerospace in Akron, Ohio. Helicopter wheels are small, but must be able to withstand the stress of hard vertical landings.

tactical support bomb

BAT 120

To neutralize the columns of mechanized units as they travel along their axes of advance (roads, railway-tracks) before they deploy over the combat-zone.

- Optimal aircraft loading: 18 bombs under just one pylon (735 kg on a single carrying point). Other carrying points available for fuel, ECM, air-to-air missiles.
- Weapon-system adaptable to all combat-aircraft, including the lightest, whether they are fitted with a fire control system or not.
- Two weapon-systems in one:
  – with no adjustment, the adaptors installed on the aircraft can accommodate the BAT 120 or BAP 100 (cratering bomb) indifferently;
  – in both cases less than 10 min is required to load the bombs on the aircraft.
- Weapon-system in service with the French Air Force.

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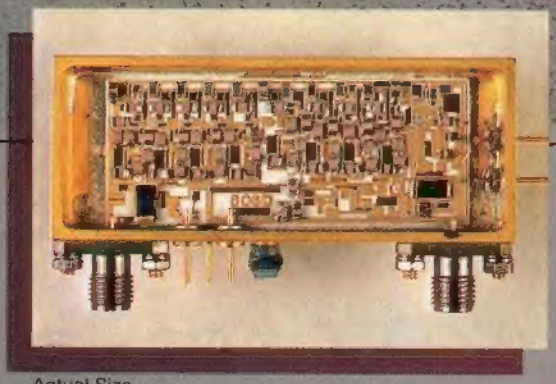

Actual Size

Varian miniature log amplifiers selected for Eaton's AN/ALQ-161

The Eaton Corporation/AIL Division, has selected Varian's new HCL-4 Series log amplifier for use in the AN/ALQ-161. The ALQ-161 is the complete defensive avionic system for the U.S. Air Force B-1B long-range combat bomber.

The new HCL-4 Series log amplifiers are small, lightweight modules meeting the highest reliability standards. The amplifiers are fully compliant with MIL-M-38510 and are screened to MIL-STD-883D.

Utilizing Varian's unique wide band amplifier design, the units provide exceptional log accuracy and stability over a wide temperature range. Unit-to-unit reproducibility is excellent and the amplifiers can be supplied with connectors as drop-in modules.

More information is available from Varian Beverly Microwave Division, or any Electron Device Group worldwide sales organization.

Varian Beverly Microwave Division
8 Salem Road
Beverly, Massachusetts 01915
Telephone: 617•922-6000

varian

B-1B
AN/ALQ-161
Eaton Corporation
AIL Division

Excellence

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Space stations will be required to be self-sufficient for long periods . . . just like submarines. Vitro Corporation has long ensured the sustained on-station operation of the submarine fleet.

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Full Support - Vitro provides the logistics support, maintainability support, and systems engineering necessary to keep a submarine on patrol for extended periods.

Long Experience - Vitro support capability is founded upon over 35 years of systems engineering experience. Our engineers are well-versed in the techniques that ensure optimum systems operation in a demanding environment. With over 6,200 employees, Vitro provides mission support analysis, quality assurance, software, and modern management information systems to ensure system operability.

Extensive Resources - Yes, a space station orbiting our planet and a submarine patrolling our oceans have many needs in common. Vitro has and will continue to meet those needs. Our combination of experience, technical capability, and resources is unmatched.

This capability is available to you. Vitro Corporation stands ready now to work with you to ensure a long and successful Space Station Program . . . to continue a tradition of excellence.

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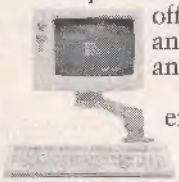

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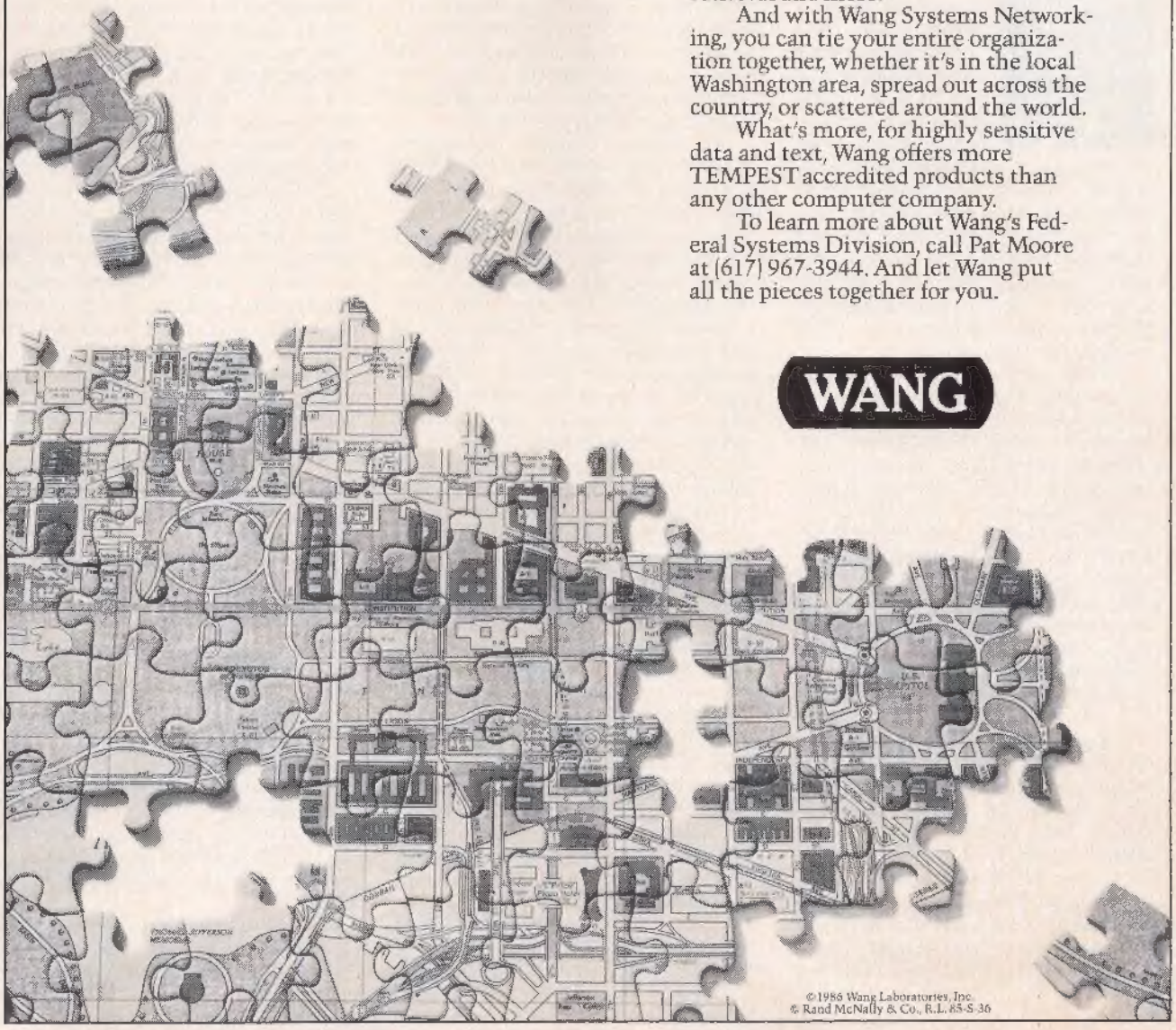

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